

# Pak-Austria Fachhochschule: Institute of Applied Sciences & Technology Mang, Haripur, Khyber Pakhtunkhwa

<b>Test 1</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>English</li> <li>Biology</li> <li>Physics</li> <li>Chemistry</li> </ul>	<b>Test 2</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>English</li> <li>Maths</li> <li>Physics</li> <li>Chemistry</li> </ul>	<b>Test 3</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>English</li> <li>Computer</li> <li>Physics</li> <li>Maths</li> </ul>
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## Section 1

### ENGLISH

#### Guidelines

**This section has 10 questions, and each question has equal marks.  
Click on Next to proceed further.**

**Q1. .... me, I would be happy to dedicate a few extra hours for the humanitarian cause.**

- A) As of                      B) As for                      C) As from                      D) As to

**Q2. They have a(n)..... on the top prize in the competition.**

- A) advantage              B) edge                      C) eye                      D) vision

**Q3. Ahmed was true to his ..... when he saved the child's life in the accident but asked for money as a favor from the child's parents.**

- A) colors                      B) tones                      C) character                      D) self

**Q4. Are we ..... to leave on vacation?**

- A) already                      B) altogether                      C) all together                      D) all ready

**Q5. He is very careful. He..... his children to drive his car in rush hour traffic.**

- A) does not allow              B) did not allow                      C) allowed                      D) allow

**Q6. The coach's insistence on fitness has become ..... He yells at players all the time.**

- A) emotional                      B) dilatory                      C) obsessive                      D) rational

**Q7. They ..... just reaching the office at 5 p.m. when I finished off my work.**

- A) have been                      B) will be                      C) had been                      D) were

**Q8. Would he like the dinner? I ..... very hard to make it delicious.**

- A) will be working              B) will work                      C) worked                      D) had worked

**Q9. Our group will be ..... by your group at next intersection but the goal of both groups will remain same.**

- A) joined                      B) replaced                      C) ignored                      D) influenced

**Q10. The ..... applauded enthusiastically after the performance was finished.**

- A) audience                      B) spectators                      C) bystanders                      D) onlookers

## **SECTION: 2**

### **BIOLOGY**

#### **Guidelines**

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Click on Next to proceed further.**

**Q11. Plants having foreign DNA incorporated into their cells are called**

- (A) Transduced plants (B) Transgenic plants  
(C) Transformed plants (D) Xerophyte plants

**Q12. Heat vaporization is expressed as calories per \_\_\_\_\_ vaporized.**

- (A) Litre (B) Kilogram (C) Gram (D) Kilometre

**Q13. Who used the technique of X-Ray diffraction to determine the structure of DNA?**

- (A) Erwin Chargaff (B) Watson & Crick  
(C) M. Wilkins and R. Franklin (D) Alfred Harshey & Martha Chase

**Q14. RNA is synthesized by DNA in a process known as:**

- (A) Replication (B) Transcription (C) Reverse Transcription (D) Conjugation

**Q15 Thylakoids are found in:**

- (A) Chloroplasts (B) Golgi complex (C) Mitochondria (D) Nucleus

**Q16. The virus is:**

- (A) Facultative parasite (B) Obligate intracellular parasite  
(C) Saprophyte (D) Ectoparasite

**Q16 Heterocysts are helpful in the fixation of atmospheric nitrogen in:**

- (A) Bacteriophages (B) Cyanobacteria (C) Fungi (D) Land plants

**Q17 Which of the following organisms is used as an experimental organism in research on photosynthesis as well as an alternative source of food?**

- (A) Plasmodium (B) Ameoba (C) Chlorella (D) Rhizopus

**Q18 Turn Over DO NOT WRITE ANYTHING HERE ix. Sexual phase has not been observed in:**

- (A) Zygomycota (B) Basidiomycota (C) Ascomycota (D) Deuteromycota

**Q19 Gametophyte is the dominant plant body in:**

- (A) Marchantia (B) Rosa indica (C) Adiantum (D) Pinus

**Q20. Which one of the following is not an eutherian mammal?**

- (A) Whale (B) Opossum (C) Elephant (D) Horse

**Q21. Hepatic and pancreatic secretion are also stimulated by a hormone called:**

- (A) Insulin (B) Oxytocin (C) Secretin (D) Testosterone

**Q22. Tiny thin walled ducts called parabronchi are present in the lungs of:**

- (A) Cows (B) Birds (C) Man (D) Frog

**Q23. Which one group of the following organisms has not double circuit heart?**

- (A) Reptiles (B) Birds (C) Fishes (D) Mammals

**Q24. Antiserum is a serum containing:**

- (A) Antibiotics (B) Antibodies (C) Antigens (D) Antiseptic

**Q25. What type of pressure moves the sucrose and other substances in the sieve tube cells and then moves to sink?**

- (A) Atmospheric pressure (B) Root pressure (C) Hydrostatic pressure (D) Blood pressure

**Q26. Guttation is the loss of liquid water through:**

- (A) Phloem (B) Cambium (C) Hydathodes (D) Endodermis

**Q27. Breathing center is located in \_\_\_\_\_ part of the brain.**

- (A) Cerebellum (B) Medulla (C) Cerebrum (D) Spinal cord

**Q28. Animals which excrete ammonia as the major nitrogenous waste product are called:**

- (A) Ureotelic (B) Uricotelics (C) Ammoniotelic (D) Urethritis

**Q29. Syphilis is caused by:**

- (A) Proteus vulgaris (B) E. Coli (C) Klebsiella pneumoniae (D) Treponema palladium

**Q30. \_\_\_\_\_ is the immobility and fusion of vertebral joints.**

- (A) Sciatica (B) Arthritis (C) Spondylitis (D) Osteoarthritis

**Q31. A patient with Myxedema would have elevated level of:**

- (A) TSH (B) ACTH (C) T4 (D) Calcitonin

**Q32. Receptors which can detect changes in osmolarity of blood are:**

- (A) Nociceptors (B) Mechanoreceptors (C) Osmoreceptors (D) Photoreceptors

**Q33. The message which is transmitted across the synapse in the form of chemical messenger is:**

- (A) Synaptic cleft (B) Neurotransmitter (C) Synaptic delay (D) Synaptic knobs

**Q34. Duchenne patients lack a protein responsible for Duchenne muscular dystrophy.**

- (A) Actin (B) Myosin (C) Myoglobin (D) Dystrophin

**Q35. Synthesis of a new DNA strand usually begins with a/an:**

- (A) RNA primer (B) DNA ligase (C) DNA primer (D) Okazaki fragment

**Q36. The process by which genetic information flows from genes to proteins is:**

- (A) Translation (B) Transcription (C) Mutation (D) Gene expression

**Q37. Which of these may be heterozygous?**

- (A) A Haploid cell (B) An egg  
(C) An organism with a dominant phenotype (D) An organism with the recessive genotype

**Q38. Albinism is recessive gene. A woman with an albino father marries an albino man, the proportion of her progeny is:**

- (A) 2 normal: 1 Albino                      (B) All normal                      (C) All albino                      (D) 1 normal: 1 albino

**Q39. The process by which species are replaced over time is:**

- (A) Ecological succession                      (B) Climax                      (C) Population                      (D) Trophic level

**Q40. An animal that carries a foreign gene that has been deliberately inserted into its genome is:**

- (A) Vector                      (B) Transgenic animal                      (C) Cultured animal                      (D) Donor

**Q41. What is the smallest unit of a DNA molecule that can be altered by a mutation and cause a change to the coding of a polypeptide?**

- (A) Base                      (B) Codon                      (C) Gene                      (D) Nucleotide

**Q42. In the equation,  $\text{NH}_4 \rightarrow \text{NO}_3 \rightarrow \text{NO}_2 \rightarrow \text{N}_2$ , the group of bacteria that have a role in the conversion is:**

- (A) Nitrosomonas & Clostridium                      (B) Azobacter & Clostridium  
(C) Nitrosomonas & Nitrobacter                      (D) Pseudomonas & Clostridium

**Q43. Which type of new vaccine production would be most important in the fight to eradicate measles in developing countries?**

- (A) a combined vaccine to combat it and other diseases  
(B) a single vaccine, without the need for boosters  
(C) a vaccine containing only live measles pathogens  
(D) a vaccine containing monoclonal antibodies

**Q44. Which of these can be used to cure infertility in couples where male partner has very low sperm count ?**

- (a) IUD                      (B) GIFT                      (C) IUI                      (D) None of these

**Q45. The method of directly injecting a sperm into ovum in assisted reproductive technology is called**

- (a) GIFT                      (B) ZIFT                      (C) ICSI                      (D) ET

**Q46. Increased IMR and decreased MMR in a population will**

- (A) cause rapid increase in growth rate                      (b) result in decline in growth rate  
(C) not cause significant change in growth rate                      (d) result in an explosive population.

**Q47. Intensely lactating mothers do not generally conceive due to the**

- (a) suppression of gonadotropins  
(b) hypersecretion of gonadotropins .  
(c) suppression of gametic transport  
(d) suppression of fertilization.

**Q48. A national level approach to build up a reproductively healthy society was taken up in our country in**

- (a) 1950s  
(b) 1960s  
(c) 1980s  
(d) 1990s

**Q49. Emergency contraceptives are effective if used within,**

- (a) 72 hrs of coitus
- (b) 72 hrs of ovulation
- (c) 72 hrs of menstruation
- (d) 72 hrs of implantation.

**Q50. From the sexually transmitted diseases mentioned below, identify the one which does not specifically affect the sex organs.**

- (a) Syphilis
- (b) AIDS
- (c) Gonorrhea
- (d) Genital warts

## **Section 3**

### **Physics**

#### **Guidelines**

**This section has 25 questions, and each question has equal marks.**

**Click on Next to proceed further.**

**Q51. Of the following subatomic particles, the particle which has the same charge as the positron is;**

- (A) Photon                      (B) Electron                      (C) Alpha particle                      (D) Proton

**Q52. A ball is projected vertically upward from the surface of the earth and reaches its maximum height in 4.0 seconds. The ball's initial speed, in meters per second is approximately**

- (A) 20                      (B) 40                      (C) 80                      (D) 100

**Q53. The conductivity in metallic wires depends on**

- (A) Free electrons only                      (B) Positive ions only  
(C) Negative ions only                      (D) Positive ions, negative ions and electrons

**Q54. Momentum is a quantity whose unit might be the**

- (A) foot-pound                      (C) erg                      (B) newton                      (D) gram centimeter per second

**Q55. Two rectangular tanks stand next to each other on a horizontal table. The area of the bottom of the first tank is 40 square centimeters; that of the second tank is 80 square centimeters. Both tanks are filled with water to the same height. The ratio of the liquid pressure on the bottom of the second tank to that of the bottom of the first tank is**

- (A) 1                      (B) 2                      (C) 4                      (D) 16

**Q56. Two freely falling objects, one 10 kg and one 20 kg, are dropped from the same height at the same time. Air resistance is negligible. Which of the following statements is (are) true? I. Both objects have the same potential energy at the top. II. Both objects fall with the same acceleration. III. Both objects have the same speed just before hitting the ground.**

- (A) III only                      (B) I and II only                      (C) II and III only                      (D) I, II, and II

**Q57. If a stone at the end of a string is whirled in a circle, the inward pull of the string on the stone**

- (A) is inversely proportional to the speed of the object                      (B) is inversely proportional to the square of the speed  
(C) is proportional to the speed                      (D) is proportional to the square of the speed

**Q58. A change in temperature of 450 C corresponds to a change in Fahrenheit degrees of**  
(A) 25 (B) 45 (C) 81 (D) 113

**Q59. The bending of a bimetallic strip when heated is primarily due to**  
(A) the good conductivity of the two metals (B) the large coefficient of expansion of both metals  
(C) the unequal expansion of the two metals (D) the effect of gravity

**Q60. If a gas is heated at constant pressure, which of the following descriptions will apply?**  
**I. Its volume increase is proportional to the temperature II. The kinetic energy of the molecules decreases III. The kinetic energy of the molecules increases** Page 8 of 13  
(A) I only (C) I and II only (B) I and III only (D) II and III only

**Q61. A 20 ohm and a 60 ohm resistor are connected in series to a DC generator. The voltage across the 20 ohm resistor is 80 volts. The current through the 60 ohm resistor**  
(B) cannot be calculated with the given information (B) is about 1.3 A  
(C) is 4.0 A (D) 5.0 A

**Q62. An object is placed 10 centimeters from a concave spherical mirror whose radius of curvature is 12 centimeters. The distance of the image from the mirror is**  
(A) 5 cm (B) 10 cm (C) 15 cm (D) 20 cm

**Q63. Two frequencies sounded together produce 3 beats per second. If one of the frequencies is 400 vibrations per second, the other frequency will be?**  
(A) 1200 vib/sec (B) 403 vib/sec  
(C) 397 vib/sec (D) 133.33 vib/sec

**Q64. X rays consist of**  
(A) a stream of neutrons (B) a stream of electrons  
(C) radiation similar to radon (D) radiation similar to gamma rays

**Q65. During the time that sound travels 1100 feet in air, light can travel in vacuum a distance of about**  
(A) 1100 miles (B) 200000 miles  
(C) 20000 miles (D) 11000 km

**Q66. A spacecraft is approaching the earth. Relative to the radio signals it sends out, the signal received on the earth have**  
(A) a lower frequency (B) a higher velocity  
(C) a shorter wavelength (D) all of the above

**Q67. All of the following pure elements are good electrical conductors except**  
(A) copper (B) aluminum (C) silver (D) iron

**Q68. Which of the following examples of electromagnetic radiation has the most energy per quantum?**  
(A) Radio waves (B) Microwaves (C) visible light (D) X-rays

**Q69. Three capacitors each of value 0.1F are connected in series, then their total capacitance is closest to**  
(A) 0.0333F (B) 0.3333F (C) 0.3F (D) 3.0F

**Q70. Atomic spectra can be explained by**  
(A) The Bohr atomic model (B) Quantum Mechanics  
(C) Quantized orbits of electrons (D) All of the above

**Q71. When  ${}^{235}_{92}\text{U}$  decays by alpha particle emission, the daughter nuclei formed is**  
(A)  ${}^{231}_{90}\text{Th}$  (B)  ${}^{233}_{91}\text{Pa}$  (C)  ${}^{234}_{91}\text{Pa}$  (D)  ${}^{239}_{94}\text{Pu}$

**Q72. We can increase the capacitance of a parallel plate capacitor by**

- (A) cooling the plates. (B) bringing the plates closer together.  
(C) decreasing the dielectric constant of the material between the plates. (D) increasing the voltage across the plates.

**Q73. Terminal velocity is usually defined as the**

- (A) velocity of shock waves (B) velocity of light in water  
(C) velocity at which air resistance balances gravity (D) All of the above

**Q74. Our sun releases energy by nuclear fusion reactions. What actually happens?**

- (A) Hydrogen is converted to helium (B) Helium is converted to hydrogen  
(C) Two nuclei change into one nucleus (D) One nucleus splits into two nuclei

**Q75. Saponification results in the formation of:**

- (A) Glass (B) Polymer (C) fertilizer (D) Soap

## **SECTION: 4**

## **CHEMISTRY**

### **Guidelines**

**This section has 25 questions, and each question has equal marks.**

**Click on Next to proceed further.**

**Q76. Bakelite is a polymer of phenol and \_\_\_\_\_**

- (A) Methanol (B) Methanal (C) Alcohol (D) None of these

**Q77. The isomers caused by difference in the position of same functional group in the same chain are termed as \_\_\_\_\_ isomers.**

- (A) Chain (B) Functional group (C) Position (D) none of these

**Q78. The general formula of alkyl halides is:**

- (A)  $C_nH_{2n+2}X$  (B)  $C_nH_{2n+1}X$  (C)  $C_nH_{2n}X_2$  (D) None of these

**Q79. Kipp's apparatus is used for the preparation of this gas,**

- (A)  $H_2S$  (B)  $O_2$  (C)  $Cl_2$  (D)  $SO_3$

**Q80. In  $KMnO_4$ , oxidation number of Mn is:**

- (A). +7 (B) +6 (C) +5 (D) +4

**Q81. The chlorination of methane ( $CH_4$ ) is an example of:**

- (A) Addition reaction (B) Substitution reaction  
(C) Elimination reaction (D) Oxidation reaction

**Q82. The general formula of aldehyde is:**

- (A)  $OH$  (B)  $COOH$  (C)  $RCOR$  (D)  $RCHO$

**Q83. Wurtz reaction will be applicable in the :**

- (A)  $CH_2CH_2$  (B)  $CHBr$  (C)  $CH_3Br$  (D) None of them

**Q84. In general alkali metals act as**

- (A) Reducing agents (B) Oxidizing agents (C) Both a & b (D) None of these



**Q85. When alkyl halide is heated with alcoholic KOH \_\_\_\_\_ is formed.**

- (A) Alkene (B) Alkyl Halides (C) Alkane (D) Alkyne

**Q86. The chemical formula  $Al_2O_3$  stands for:**

- (A) Diaspore (B) Corundum (C) Bauxite (D) Gibbsite

**Q87. Water gas is produced by passing steam over red hot coke at:**

- (A) 800°C (B) 900°C (C) 600°C (D) 1000°C

**Q88. Aldehyde is formed by oxidation of:**

- (A) Primary Alcohol (B) Secondary Alcohol  
(C) Tertiary Alcohol (D) Ether

**Q89. Tollen's reagent is:**

- (A) Ammoniacal cuprous oxide (B) Ammoniacal silver nitrate  
(C) Ammoniacal silver oxide (D) Ammoniacal silver bromide

**Q90. Non metals acts as:**

- (A) Reducing agent (B) Bleaching agent (C) Oxidizing agent (D) Nitrating Agent

**Q91. Tetra ethyl lead is used for reduce the \_\_\_\_\_ of the engine.**

- (A) Knocking (B) etching (C) hydrogenation (D) Sublimation

**Q92. Making of design on glass surface is known as**

- (A) Knocking (B) Etching (C) Hydrogenation (D) Sublimation

**Q93. It is a nucleophile:**

- (A)  $OH^-$  (B)  $CN^-$  (C)  $SH^-$  (D) All of these

**Q94. Ethanol can be prepared by the \_\_\_\_\_ of glucose:**

- (A) Hydration (B) Hydrogenation (C) Oxidation (D) Fermentation

**Q95. The hybridization in the carbon atom of methane is:**

- (A)  $sp^3$  (B)  $sp^2$  (C)  $sp$  (D)  $sp^3$

**Q96. This will give Iodoform reaction on the treatment with  $Na_2CO_3$  and  $I_2$ :**

- (A) Acetic acid (B) Acetone  
(C) Acetic Anhydride (D) Methanol

**Q97. Only one of this compound given below obeys Markownikoff rule on reaction with HBr:**

- (A)  $CH_3-CH=CH_2$  (B)  $CH_2=CH_2$   
(C)  $CH\equiv CH$  (D)  $CH_3-CH=CH-CH_3$

**Q98. Saturated Hydrocarbon containing a single bond are called**

- (A) Paraffins (B) Alkynes (C) Proteins (D) Olefines

**Q99. Electronic configuration of Zn:**

- (A)  $4s^1, 3d^{10}$  (B)  $4s^0, 3d^9$  (C)  $4s^0, 3d^{10}$  (D)  $4s^2, 3d^{10}$

**Q100. The mixture of "Al" and  $Fe_2O_3$  is used in :**

- (A) Pyrolysis (B) Thermite process (C) Electrolysis (D) Washing

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**Section 1**  
**ENGLISH**

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**Q1. .... me, I would be happy to dedicate a few extra hours for the humanitarian cause.**

- A) As of
- B) As for
- C) As from
- D) As to

**Q2. They have a(n)..... on the top prize in the competition.**

- A) advantage
- B) edge
- C) eye
- D) vision

**Q3. Ahmed was true to his ..... when he saved the child's life in the accident but asked for money as a favor from the child's parents.**

- A) colors
- B) tones
- C) character
- D) self

**Q4. Are we ..... to leave on vacation?**

- A) already
- B) altogether
- C) all together
- D) all ready

**Q5. He is very careful. He..... his children to drive his car in rush hour traffic.**

- A) does not allow
- B) did not allow
- C) allowed
- D) allow

**Q6. The coach's insistence on fitness has become ..... He yells at players all the time.**

- A) emotional
- B) dilatory
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- D) rational

**Q7. They ..... just reaching the office at 5 p.m. when I finished off my work.**

- A) have been
- B) will be
- C) had been
- D) were

**Q8. Would he like the dinner? I ..... very hard to make it delicious.**

- A) will be working
- B) will work
- C) worked
- D) had worked

**Q9. Our group will be ..... by your group at next intersection but the goal of both groups will remain same.**

- A) joined
- B) replaced
- C) ignored
- D) influenced

**Q10. The ..... applauded enthusiastically after the performance was finished.**

- A) audience
- B) spectators
- C) bystanders
- D) onlookers

## **SECTION: 2**

### **Maths**

#### **Guidelines**

**This section has 40 questions, and each question has equal marks.  
Click on Next to proceed further.**

**Q11. What is the Arithmetic Mean of the following data 3,6,9,12,15.**

- (A) 7
- (B) 9
- (C) 12
- (D) 8

**Q12. Find two number whose sum is 28 and the difference is 4 \_\_\_\_\_?**

- (A) 12,16
- (B) 18,10
- (C) 15,13
- (D) 14,12

**Q13. 1 acre is equal to \_\_\_\_\_square feet?**

- (A) 45434 square feet
- (B) 34343 square feet
- (C) 43572 square feet
- (D) 43560 square feet

**Q14. What is the Sum of First 70 even Numbers?**

- (A) 4970
- (B) 4950
- (C) 4900
- (D) 4980

**Q15 What is the Sum of First 70 Odd Numbers?**

- (A) 4900
- (B) 4970
- (C) 4960
- (D) None of these

**Q16. 40 is subtracted from 60% of a number, the result is 50. Find the number?**

- (A) 150
- (B) 140
- (C)130
- (D) 110

**Q16 85% of a number is added to 24, the result is the same number. Find the number?**

- (A) 150
- (B) 140
- (C) 130
- (D) 160

**Q17 60% of a number is added to 120, the result is the same number. Find the number?**

- (A) 300

(B) 200

(C) 400

(D) 500

**Q18** 25% of 30% of 45% is equal to \_\_\_\_\_?

(A) 0.03375

(B) 0.3375

(C) 3.375

(D) 33.75

**Q19** 40% of a number is more than 20% of 650 by 190. Find the number?

(A) 600

(B) 700

(C) 800

(D) 900

**Q20.** How much is 80% of 40 is greater than  $\frac{4}{5}$  of 25?

(A) 6

(B) 9

(C) 4

(D) 12

**Q21.** A, B and C together earn Rs.150 per day while A and C together earn Rs.94 and B and C together earn Rs.76. The daily earning of C is:\_\_\_\_\_?

(A) 10 Rs,

(B) 15 Rs,

(C) 20 Rs.

(D) 25 Rs.

**Q22.** If 3 men or 4 women can construct a wall in 43 days, then the number of days that 7 men and 5 women take to construct it is :

(A) 12 days

(B) 14 days

(C) 16 days

(D) 18 days

**Q23.** The average of two numbers is XY.If one number is equal to X ,the other number is equal to\_\_\_\_\_?

(A) X

(B) 2Y

(C) XY-X

(D)  $2XY - 2X$

**Q24. If the average marks of three batches of 55, 60 and 45 students respectively is 50, 55, 60, then the average marks of all the students is \_\_\_\_\_?**

- (A) 53.33
- (B) 54.68
- (C) 55
- (D) None of these

**Q25. The average weight of 16 boys in a class is 50.25 kg and that of the remaining 8 boys is 45.15 kg. Find the average weights of all the boys in the class.**

- (A) 47.55 kg
- (B) 48 kg
- (C) 48.55 kg
- (D) 49.25 kg

**Q26. The average weight of A, B and C is 45 kg. If the average weight of A and B be 40 kg and that of B and C be 43 kg, then the weight of B is \_\_\_\_\_?**

- (A) 17 kg
- (B) 20 kg
- (C) 26 kg
- (D) 31 kg

**Q27. If the volume and surface area of a sphere is numerically the same then it's radius is \_\_\_\_\_?**

- (A) 1 unit
- (B) 2 units
- (C) 3 units
- (D) 4 units

**Q28. A right cylinder and a right circular cone have the same radius and the same volume. The ratio of the height of the cylinder to that of the cone is \_\_\_\_\_?**

- (A) 3: 5
- (B) 2: 5
- (C) 3: 1
- (D) 1: 3

**Q29. The radius of a circular cylinder is the same as that of a sphere. Their volumes are equal. The height of the cylinder is \_\_\_\_\_?**

- (A)  $\frac{4}{3}$  times its radius
- (B)  $\frac{2}{3}$  times its radius
- (C) Equal to it's radius
- (D) Equal to it's diameter

**Q30. The number of solid spheres each of diameter 6 cm, that could be moulded to form a solid metal cylinder of height 45 cm and diameter 4 cm is?**

- (A) 3
- (B) 4
- (C) 5
- (D) 6

**Q31. The length of the wire of 0.2mm radius that can be drawn after melting a solid copper sphere of diameter 18cm?**

- (A) 24.3 m
- (B) 243 m
- (C) 2430 m
- (D) 24300 m

**Q32. If the volumes of two cubes are in the ratio 8: 1, the ratio of their edges is\_\_\_\_\_?**

- (A) 8: 1
- (B)  $2\sqrt{2} : 1$
- (C) 2 : 1
- (D) None of these

**Q33. A metal sheet 27 cm long 8cm broad and 1 cm thick is melted into a cube. The difference between the surface areas of two solids is\_\_\_\_\_?**

- (A) 284 cm<sup>2</sup>
- (B) 286 cm<sup>2</sup>
- (C) 296 cm<sup>2</sup>
- (D) 300 cm<sup>2</sup>

**Q34. If the length, breadth and the height of a cuboid are in the ratio 6: 5: 4 and if the total surface area is 33300 cm<sup>2</sup>, then length breadth and height in cms, are respectively?**

- (A) 90, 85, 60
- (B) 85, 75, 60
- (C) 90, 75, 70
- (D) 90, 75, 60

**Q35. The Total cost of flooring a room at Rs.8.50 per square meter is Rs.510. If the length of the room is 8km it's breadth is\_\_\_\_\_?**

- (A) 7.5m
- (B) 8.5m
- (C) 10.5m
- (D) 12.5m

**Q36. The length of a rectangular increased by 10% and its breadth is decreased by 10 %. Then the area of the new rectangle is\_\_\_\_\_?**

- (A) Neither increased nor decreased
- (B) Increased by 1%
- (C) Decreased by 1%



(D) Decreased by 10%

**Q37. Total area of the 64 small squares of chess board is  $400\text{cm}^2$ . There is 3cm wide border around the chess board. What is the length of each side of the chess board?**

(A) 17cm

(B) 20cm

(C) 23cm

(D) 26cm

**Q38. How many meters of carpet 63cm will be required to be a floor of a room 14m by 9cm?**

(A) 200m

(B) 210m

(C) 220m

(D) 185m

**Q39. A rectangular courtyard 3.78m long and 5.25m broad is to be paved exactly with square tiles all of the same size. The minimum number of such tiles is\_\_\_\_\_?**

(A) 450

(B) 430

(C) 440

(D) 460

**Q40. A rectangular carpet has an area of 120 square meters and a parameter of 46m. The length of its diagonals is\_\_\_\_\_?**

(A) 11m

(B) 13m

(C) 15m

(D) 17m

**Q41. The average of first 10 even numbers is\_\_\_\_\_?**

(A) 18

(B) 22

(C) 9

(D) 11

**Q42. The average of 11 numbers is 10.9. If the average of first six is 10.5 and that of the last six is 11.4 the sixth number is\_\_\_\_\_?**

(A) 11.0

(B) 11.3

(C) 11.4

(D) 11.5

**Q43. The average of first ten prime numbers which are odd is\_\_\_\_\_?**

(A) 12.9

- (B) 13.8
- (C) 15.8
- (D) 17

**Q44. The average age of three boys is 15 years and their ages are in proportion 3:5:7. What is the age in years of the youngest boy?**

- (A) 15
- (B) 9
- (C) 18
- (D) 21

**Q45. A person purchases 90 clocks and sells 40 clocks at a gain of 10% and 50 clocks at a gain of 20%. If he sold all of them at a uniform profit of 15%, then he would have got Rs. 40 less. The cost price of each clock is:\_\_\_\_\_?**

- (A) Rs.50
- (B) Rs.60
- (C) Rs.80
- (D) Rs.90

**Q46. If 5% more is gained by selling an article for Rs. 350 than by selling it for Rs. 340, the cost of the article is:\_\_\_\_\_?**

- (A) Rs. 50
- (B) Rs. 160
- (C) Rs. 200
- (D) Rs. 225

**Q47. A fair price shopkeeper takes 10% profit on his goods. He lost 20% goods during theft. His loss percent is:\_\_\_\_\_?**

- (A) 8
- (B) 10
- (C) 11
- (D) 12

**Q48. The cost price of an article is 64% of the marked price. Calculate the gain percent after allowing a discount of 12%.**

- (A) 37.5 %
- (B) 38.5 %
- (C) 42 %
- (D) 27.5 %

**Q49. The cost price of a radio is Rs.1500 and it was sold for Rs.1230, find the loss %?**

- (A) 18%
- (B) 9%
- (C) 15%
- (D) 6%

**Q50. A cycle is bought for Rs.900 and sold for Rs.1080, find the gain percent?**

- (A)  $16\frac{2}{3}\%$
- (B) 20%
- (C) 18%
- (D) 25%

### **Section 3**

### **Physics**

#### **Guidelines**

**This section has 25 questions, and each question has equal marks.**

**Click on Next to proceed further.**

**Q51. Of the following subatomic particles, the particle which has the same charge as the positron is;**

- (A) Photon
- (B) Electron
- (C) Alpha particle
- (D) Proton

**Q52. A ball is projected vertically upward from the surface of the earth and reaches its maximum height in 4.0 seconds. The ball's initial speed, in meters per second is approximately**

- (A) 20
- (B) 40
- (C) 80
- (D) 100

**Q53. The conductivity in metallic wires depends on**

- (A) Free electrons only
- (B) Positive ions only
- (C) Negative ions only
- (D) Positive ions, negative ions and electrons

**Q54. Momentum is a quantity whose unit might be the**

- (A) foot-pound
- (B) (C) erg
- (C) (B) newton
- (D) (D) gram centimeter per second

**Q55. Two rectangular tanks stand next to each other on a horizontal table. The area of the bottom of the first tank is 40 square centimeters; that of the second tank is 80 square centimeters. Both tanks are filled with water to the same height. The ratio of the liquid pressure on the bottom of the second tank to that of the bottom of the first tank is**

- (A) 1
- (B) 2
- (C) 4

(D) 16

**Q56. Two freely falling objects, one 10 kg and one 20 kg, are dropped from the same height at the same time. Air resistance is negligible. Which of the following statements is (are) true? I. Both objects have the same potential energy at the top. II. Both objects fall with the same acceleration. III. Both objects have the same speed just before hitting the ground.**

- (A) III only
- (B) I and II only
- (C) II and III only
- (D) I, II, and III

**Q57. If a stone at the end of a string is whirled in a circle, the inward pull of the string on the stone**

- (A) is inversely proportional to the speed of the object
- (B) is inversely proportional to the square of the speed
- (C) is proportional to the speed
- (D) is proportional to the square of the speed

**Q58. A change in temperature of 450 °C corresponds to a change in Fahrenheit degrees of**

- (A) 25
- (B) 45
- (C) 81
- (D) 113

**Q59. The bending of a bimetallic strip when heated is primarily due to**

- (A) the good conductivity of the two metals
- (B) the large coefficient of expansion of both metals
- (C) the unequal expansion of the two metals
- (D) the effect of gravity

**Q60. If a gas is heated at constant pressure, which of the following descriptions will apply? I. Its volume increase is proportional to the temperature II. The kinetic energy of the molecules decreases III. The kinetic energy of the molecules increases** Page 8 of 13

- (A) I only
- (B) I and II only
- (C) I and III only
- (D) II and III only

**Q61. A 20 ohm and a 60 ohm resistor are connected in series to a DC generator. The voltage across the 20 ohm resistor is 80 volts. The current through the 60 ohm resistor**

- (A) cannot be calculated with the given information
- (B) is about 1.3 A
- (C) is 4.0 A
- (D) 5.0 A

**Q62. An object is placed 10 centimeters from a concave spherical mirror whose radius of curvature is 12 centimeters. The distance of the image from the mirror is**

- (A) 5 cm
- (B) 10 cm
- (C) 15 cm
- (D) 20 cm

**Q63. Two frequencies sounded together produce 3 beats per second. If one of the frequencies is 400 vibrations per second, the other frequency will be?**

- (A) 1200 vib/sec
- (B) 403 vib/sec
- (C) 397 vib/sec
- (D) 133.33 vib/sec

**Q64. X rays consist of**

- (A) a stream of neutrons
- (B) a stream of electrons
- (C) radiation similar to radon
- (D) radiation similar to gamma rays

**Q65. During the time that sound travels 1100 feet in air, light can travel in vacuum a distance of about**

- (A) 1100 miles
- (B) 200000 miles
- (C) 20000 miles
- (D) 11000 km

**Q66. A spacecraft is approaching the earth. Relative to the radio signals it sends out, the signal received on the earth have**

- (A) a lower frequency
- (B) a higher velocity
- (C) a shorter wavelength
- (D) all of the above

**Q67. All of the following pure elements are good electrical conductors except**

- (A) copper
- (B) aluminum
- (C) silver
- (D) iron

**Q68. Which of the following examples of electromagnetic radiation has the most energy per quantum?**

- (A) Radio waves
- (B) Microwaves
- (C) visible light
- (D) X-rays

**Q69. Three capacitors each of value 0.1F are connected in series, then there total capacitance is closest to**

- (A) 0.0333F
- (B) 0.3333F
- (C) 0.3F
- (D) 3.0F

**Q70. Atomic spectra can be explained by**

- (A) The Bohr atomic model
- (B) Quantum Mechanics
- (C) Quantized orbits of electrons
- (D) All of the above

**Q71. When  ${}^{235}_{92}\text{U}$  decays by alpha particle emission, the daughter nuclei formed is**

- (A)  ${}^{231}_{90}\text{Th}$
- (B)  ${}^{233}_{91}\text{Pa}$
- (C)  ${}^{234}_{91}\text{Pa}$

(D) Pu 239 94

**Q72. We can increase the capacitance of a parallel plate capacitor by**

- (A) cooling the plates.
- (B) bringing the plates closer together.
- (C) decreasing the dielectric constant of the material between the plates.
- (D) increasing the voltage across the plates.

**Q73. Terminal velocity is usually defined as the**

- (A) velocity of shock waves
- (B) velocity of light in water
- (C) velocity at which air resistance balances gravity
- (D) All of the above

**Q74. Our sun releases energy by nuclear fusion reactions. What actually happens?**

- (A) Hydrogen is converted to helium
- (B) Helium is converted to hydrogen
- (C) Two nuclei change into one nucleus
- (D) One nucleus splits into two nuclei

**Q75. Saponification results in the formation of:**

- (A) Glass
- (B) Polymer
- (C) fertilizer
- (D) Soap

## **SECTION: 4**

## **CHEMISTRY**

### **Guidelines**

**This section has 25 questions, and each question has equal marks.  
Click on Next to proceed further.**

**Q76. Bakelite is a polymer of phenol and \_\_\_\_\_**

- (A) Methanol
- (B) Methanal
- (C) Alcohol
- (D) None of these

**Q76. EDTA is:**

- (A) Bidentate ligand
- (B) Monodentate ligand
- (C) Chelate
- (D) Multidentate ligand

**Q77. The isomers caused by difference in the position of same functional group in the same chain are termed as \_\_\_\_\_ isomers.**

- (A) Chain
- (B) Functional group
- (C) Position

(D) none of these

**Q78. The general formula of alkyl halides is:**

(A)  $C_nH_{2n+2}X$

(B)  $C_nH_{2n+1}X$

(C)  $C_nH_{2n}X_2$

(D) None of these

**Q77. Cod liver oil is a source of**

(A) Vitamin A

(B) Vitamin B

(C) Vitamin C

(D) Vitamin K

**Q78. This gas is produced by ethene with sulphur monochloride:**

(A) Tear gas

(B). Acetylene gas

(C) Laughing gas

(D) Mustard gas

**Q79. Kipp's apparatus is used for the preparation of this gas,**

(A)  $H_2S$

(B)  $O_2$

(C)  $Cl_2$

(D)  $SO_3$

**Q80. In  $KMnO_4$ , oxidation number of Mn is:**

(A). +7

(B) +6

(C) +5

(D) +4

**Q81. The chlorination of methane ( $CH_4$ ) is an example of:**

(A) Addition reaction

(B) Substitution reaction

(C) Elimination reaction

(D) Oxidation reaction

**Q82. The general formula of aldehyde is:**

(A) OH

(B) COOH

(C) RCOR

(D) RCHO

**Q83. Wurtz reaction will be applicable in the :**

(A)  $CH_2$   $CH_2$

(B) CHBr

(C)  $CH_3Br$

(D) None of them

**Q84. In general alkali metals act as**

- (A) Reducing agents
- (B) Oxidizing agents
- (C) Both a & b
- (D) None of these

**Q85. When alkyl halide is heated with alcoholic KOH \_\_\_\_\_ is formed.**

- (A) Alkene
- (B) Alkyl Halides
- (C) Alkane
- (D) Alkyne

**Q86. The chemical formula  $Al_2O_3$  stands for:**

- (A) Diaspore
- (B) Corundum
- (C) Bauxite
- (D) Gibbsite

**Q87. Water gas is produced by passing steam over red hot coke at:**

- (A) 800°C
- (B) 900°C
- (C) 600°C
- (D) 1000°C

**Q88. Aldehyde is formed by oxidation of:**

- (A) Primary Alcohol
- (B) Secondary Alcohol
- (C) Tertiary Alcohol
- (D) Ether

**Q89. Tollen's reagent is:**

- (A) Ammoniacal cuprous oxide
- (B) Ammoniacal silver nitrate
- (C) Ammoniacal silver oxide
- (D) Ammoniacal silver bromide

**Q90. Non metals acts as:**

- (A) Reducing agent
- (B) Bleaching agent
- (C) Oxidizing agent
- (D) Nitrating Agent

**Q91. Tetra ethyl lead is used for reduce the \_\_\_\_\_ of the engine.**

- (A) Knocking
- (B) etching
- (C) hydrogenation
- (D) Sublimation

**Q92. Making of design on glass surface is known as**

- (A) Knocking



- (B) Etching
- (C) Hydrogenation
- (D) Sublimation

**Q93. It is a nucleophile:**

- (A) OH-1
- (B) CN-1
- (C) SH-1
- (D) All of these

**Q94. Ethanol can be prepared by the \_\_\_\_\_ of glucose:**

- (A) Hydration
- (B) Hydrogenation
- (C) Oxidation
- (D) Fermentation

**Q95. The hybridization in the carbon atom of methane is:**

- (A) sp<sup>3</sup>
- (B) sp<sup>2</sup>
- (C) sp
- (D) sp<sup>3</sup>

**Q96. This will give Iodoform reaction on the treatment with Na<sub>2</sub>CO<sub>3</sub> and I<sub>2</sub>:**

- (A) Acetic acid
- (B) Acetone
- (C) Acetic Anhydride
- (D) Methanol

**Q97. Only one of this compound given below obeys Markownikoff rule on reaction with HBr:**

- (A) CH<sub>3</sub>-CH=CH<sub>2</sub>
- (B) CH<sub>2</sub>=CH<sub>2</sub>
- (C) CH≡CH
- (D) CH<sub>3</sub>-CH=CH-CH<sub>3</sub>

**Q98. Saturated Hydrocarbon containing a single bond are called**

- (A) Paraffins
- (B) Alkynes
- (C) Proteins
- (D) Olefines

**Q99. Electronic configuration of Zn:**

- (A) 4s<sup>1</sup>, 3d<sup>10</sup>
- (B) 4s<sup>0</sup>, 3d<sup>9</sup>
- (C) 4s<sup>0</sup>, 3d<sup>10</sup>
- (D) 4s<sup>2</sup>, 3d<sup>10</sup>

**Q100. The mixture of "Al" and Fe<sub>2</sub>O<sub>3</sub> is used in :**

- (A) Pyrolysis
- (B) Thermite process
- (C) Electrolysis
- (D) Washing

# Pak-Austria Fachhochschule: Institute of Applied Sciences & Technology Mang, Haripur, Khyber Pakhtunkhwa

<b>Test 1</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>English</li> <li>Biology</li> <li>Physics</li> <li>Chemistry</li> </ul>	<b>Test 2</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>English</li> <li>Maths</li> <li>Physics</li> <li>Chemistry</li> </ul>	<b>Test 3</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>English</li> <li>Computer</li> <li>Physics</li> <li>Maths</li> </ul>
<b>Test 4</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>English</li> <li>Computer Science</li> <li>Statistics</li> <li>Math</li> </ul>	<b>Test 5</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>English</li> <li>Computer Science</li> <li>Economics</li> <li>Maths</li> </ul>	<b>Test 6</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>English</li> <li>Maths</li> <li>Physics</li> <li>Chemistry</li> </ul>
<b>Test 7</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>English</li> <li>Maths</li> <li>Physics</li> <li>Computer</li> </ul>	<b>Test 8</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>Test Completion</li> <li>Sentence Equivalence</li> <li>Reading Comprehension</li> <li>Analytical Section</li> </ul>	<b>Test 9</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 3 sections. <ul style="list-style-type: none"> <li>Drawing</li> <li>Aptitude</li> <li>Arithmetic</li> </ul>
<b>Test 10</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 2 sections. <ul style="list-style-type: none"> <li>Drawing</li> <li>Aptitude</li> </ul>	<b>Test 11</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 3 sections. <ul style="list-style-type: none"> <li>English</li> <li>Arithmetics</li> <li>Analytical</li> </ul>	<b>Test 12</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 3 sections. <ul style="list-style-type: none"> <li>English</li> <li>General Science</li> <li>Analytical</li> </ul>

**Section 1**  
**ENGLISH**

**Guidelines**

**This section has 10 questions, and each question has equal marks.  
Click on Next to proceed further.**

**Q1. .... me, I would be happy to dedicate a few extra hours for the humanitarian cause.**

- A) As of
- B) As for
- C) As from
- D) As to

**Q2. They have a(n)..... on the top prize in the competition.**

- A) advantage
- B) edge
- C) eye
- D) vision

**Q3. Ahmed was true to his ..... when he saved the child's life in the accident but asked for money as a favor from the child's parents.**

- A) colors
- B) tones
- C) character
- D) self

**Q4. Are we ..... to leave on vacation?**

- A) already
- B) altogether
- C) all together
- D) all ready

**Q5. He is very careful. He..... his children to drive his car in rush hour traffic.**

- A) does not allow
- B) did not allow
- C) allowed
- D) allow

**Q6. The coach's insistence on fitness has become ..... He yells at players all the time.**

- A) emotional
- B) dilatory
- C) obsessive
- D) rational

**Q7. They ..... just reaching the office at 5 p.m. when I finished off my work.**

- A) have been
- B) will be
- C) had been
- D) were

**Q8. Would he like the dinner? I ..... very hard to make it delicious.**

- A) will be working
- B) will work
- C) worked
- D) had worked

**Q9. Our group will be ..... by your group at next intersection but the goal of both groups will remain same.**

- A) joined
- B) replaced
- C) ignored
- D) influenced

**Q10. The ..... applauded enthusiastically after the performance was finished.**

- A) audience
- B) spectators
- C) bystanders
- D) onlookers

## **SECTION: 2**

### **Computer Science**

#### **Guidelines**

**This section has 40 questions, and each question has equal marks.**

**Click on Next to proceed further.**

**Q11. The term 'Computer' is derived from\_\_\_\_\_?**

- (A) Latin
- (B) German
- (C) French
- (D) Arabic

**Q12. Who is the father of Computer?**

- (A) Allen Turing
- (B) Charles Babbage
- (C) Simur Cray
- (D) Augusta Adaming

**Q13. The basic operations performed by a computer are\_\_\_\_\_?**

- (A) Arithmetic operation
- (B) Logical operation
- (C) Storage and relative
- (D) All the above

**Q14. Who is the father of Internet ?**

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- (B) Vint Cerf
- (C) Denis Riche
- (D) Martin Cooper

**Q15. If a computer has more than one processor, then it is known as\_\_\_\_\_?**

- (A) Uni-process
- (B) Multiprocessor
- (C) Multi-threaded
- (D) Multi-programming

**Q16. WAN stands for\_\_\_\_\_?**

- (A) Wap Area Network
- (B) Wide Area Network
- (C) Wide Array Net
- (D) Wireless Area Network

**Q17 \_\_\_\_\_ is called the father of modern digital computer?**

- (A) Allen Turing
- (B) Blaise Pascal
- (C) Charles Babbage
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**Q18 Who is the father of Computer science?**

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- (D) Augusta Adaming

**Q19 CPU contains\_\_\_\_\_?**

- (A) a card reader and a printing device
- (B) an analytical engine and a control unit
- (C) a control unit and an arithmetic logic unit
- (D) an arithmetic logic unit and a card reader

**Q20. Which of the following controls the process of interaction between the user and the operating system?**

- (A) User interface
- (B) Language translator
- (C) Platform
- (D) Screen saver

**Q21. The first computers were programmed using\_\_\_\_\_?**

- (A) Assembly language
- (B) Machine language
- (C) Source code
- (D) Object code

**Q22. Coded entries which are used to gain access to a computer system are called\_\_\_\_\_?**

- (A) Entry codes
- (B) Passwords
- (C) Security commands
- (D) Code words

**Q23. You can organize files by storing them in\_\_\_\_\_?**

- (A) archives
- (B) folders
- (C) indexes
- (D) lists

**Q24. What type of resource is most likely to be a shared common resource in a computer Network?**

- (A) Printers
- (B) Speakers
- (C) Floppy disk drives

(D) None of these

**Q25. Which device is required for the Internet connection?**

(A) Joystick

(B) Modem

(C) CD Drive

(D) NIC Card

**Q26. What is a light pen?**

(A) A Mechanical Input device

(B) Optical input device

(C) Electronic input device

(D) Optical output device

**Q27. UNIVAC is\_\_\_\_\_?**

(A) Universal Automatic Computer

(B) Universal Array Computer

(C) Unique Automatic Computer

(D) Unvalued Automatic Computer

**Q28. The capacity of 3.5 inch floppy disk was\_\_\_\_\_?**

(A) 1.40 MB

(B) 1.44 GB

(C) 1.40 GB

(D) 1.44 MB

**Q29. MICR stands for\_\_\_\_\_?**

(A) Magnetic ink character recognition

(B) Magnetic Ink Code Reader

(C) Magnetic Ink Cases Reader

(D) None of these

**Q30. EBCDIC stands for\_\_\_\_\_?**

(A) Extended Binary Coded Decimal Interchange Code

(B) Extended Bit Code Decimal Interchange Code

(C) Extended Bit Case Decimal Interchange Code

(D) Extended Binary Case Decimal Interchange Code

**Q31. Which of the following is a part of the Central Processing Unit?**

(A) Printer

(B) Key board

(C) Mouse

(D) Arithmetic & Logic unit



**Q32. CAD stands for\_\_\_\_\_?**

- (A) Computer aided design
- (B) Computer algorithm for design
- (C) Computer application in design
- (D) Computer analogue design

**Q33. Junk e-mail is also called\_\_\_\_\_?**

- (A) spam
- (B) spoof
- (C) sniffer script
- (D) spool

**Q34. which statement describe “Hackers”?**

- (A) break into other people’s computers
- (B) may legally break into computers as long as they do not do any damage
- (C) are people who are allergic to computers
- (D) all have the same motive

**Q35. Example of non-numeric data is\_\_\_\_\_?**

- (A) Employee address
- (B) Examination score
- (C) Bank balance
- (D) All of these

**Q36. What is embedded system?**

- (A) The programme which arrives by being wrapped in box.
- (B) The programme which is the permanent part of the computer
- (C) The computer which is the part of a larger system or machine
- (D) The computer and software system that control the machine

**Q37. When a file is saved for the first time?**

- (A) a copy is automatically printed
- (B) it must be given a name to identify it
- (C) it does not need a name
- (D) it only needs a name if it is not going to be printed

**Q38. \_\_\_\_\_represents raw facts, where-as\_\_\_\_\_is data made meaningful?**

- (A) Information, reporting
- (B) Data, information
- (C) Information, bits
- (D) Records, bytes

**Q39. Which programming languages are classified as low level languages?**

- (A) BASIC, COBOL, Fortran
- (B) Prolog
- (C) C, C++
- (D) Assembly languages

**Q40. Which of the following is not anti- viruses software?**

- (A) Avira
- (B) Kaspersky
- (C) Oracle
- (D) McAfee

**Q41. What does DMA stand for?**

- (A) Distinct Memory Access
- (B) Direct Memory Access
- (C) Direct Module Access
- (D) Direct Memory Allocation

**Q42. Which of the following is a storage device?**

- (A) Tape
- (B) Hard Disk
- (C) Floppy Disk
- (D) All of the above

**Q43. Which of the following is first generation of computer?**

- (A) EDSAC
- (B) IBM-1401
- (C) CDC-1604
- (D) ICL-2900

**Q44. IBM 1401 is\_\_\_\_\_?**

- (A) First Generation Computer
- (B) Second Generation Computer
- (C) Third Generation Computer
- (D) Fourth Generation Computer

**Q45. Second Generation computers were developed during\_\_\_\_\_?**

- (A) 1949 to 1955
- (B) 1956 to 1965
- (C) 1965 to 1970
- (D) 1970 to 1990

**Q46. Which of the following devices can be used to directly image printed text?**

- (A) OCR
- (B) OMR
- (C) MICR
- (D) All of above

**Q47. The output quality of a printer is measured by\_\_\_\_\_?**

- (A) Dot per inch
- (B) Dot per sq. inch
- (C) Dots printed per unit time
- (D) All of above

**Q48. In analogue computer\_\_\_\_\_?**

- (A) Input is first converted to digital form
- (B) Input is never converted to digital form
- (C) Output is displayed in digital form
- (D) All of above

**Q49. In latest generation computers, the instructions are executed\_\_\_\_\_?**

- (A) Parallel only
- (B) Sequentially only
- (C) Both sequentially and parallel
- (D) All of above

**Q50. Who designed the first electronics computer – ENIAC?**

- (A) Van-Neumann
- (B) Joseph M. Jacquard
- (C) J. Presper Eckert and John W Mauchly
- (D) All of above

## **Section 3**

### **Physics**

#### **Guidelines**

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Click on Next to proceed further.**

**Q51. Of the following subatomic particles, the particle which has the same charge as the positron is;**

- (A) Photon

- (B) Electron
- (C) Alpha particle
- (D) Proton

**Q52. A ball is projected vertically upward from the surface of the earth and reaches its maximum height in 4.0 seconds. The ball's initial speed, in meters per second is approximately**

- (A) 20
- (B) 40
- (C) 80
- (D) 100

**Q53. The conductivity in metallic wires depends on**

- (A) Free electrons only
- (B) Positive ions only
- (C) Negative ions only
- (D) Positive ions, negative ions and electrons

**Q54. Momentum is a quantity whose unit might be the**

- (A) foot-pound
- (B) (C) erg
- (C) (B) newton
- (D) (D) gram centimeter per second

**Q55. Two rectangular tanks stand next to each other on a horizontal table. The area of the bottom of the first tank is 40 square centimeters; that of the second tank is 80 square centimeters. Both tanks are filled with water to the same height. The ratio of the liquid pressure on the bottom of the second tank to that of the bottom of the first tank is**

- (A) 1
- (B) 2
- (C) 4
- (D) 16

**Q56. Two freely falling objects, one 10 kg and one 20 kg, are dropped from the same height at the same time. Air resistance is negligible. Which of the following statements is (are) true? I. Both objects have the same potential energy at the top. II. Both objects fall with the same acceleration. III. Both objects have the same speed just before hitting the ground.**

- (A) III only
- (B) I and II only
- (C) II and III only
- (D) I, II, and III

**Q57. If a stone at the end of a string is whirled in a circle, the inward pull of the string on the stone**

- (A) is inversely proportional to the speed of the object
- (B) is inversely proportional to the square of the speed
- (C) is proportional to the speed
- (D) is proportional to the square of the speed

**Q58. A change in temperature of 450 C corresponds to a change in Fahrenheit degrees of**

- (A) 25
- (B) 45
- (C) 81
- (D) 113

**Q59. The bending of a bimetallic strip when heated is primarily due to**

- (A) the good conductivity of the two metals
- (B) the large coefficient of expansion of both metals
- (C) the unequal expansion of the two metals
- (D) the effect of gravity

**Q60. If a gas is heated at constant pressure, which of the following descriptions will apply?  
I. Its volume increase is proportional to the temperature II. The kinetic energy of the molecules decreases III. The kinetic energy of the molecules increases** Page 8 of 13

- (A) I only
- (B) I and II only
- (C) I and III only
- (D) II and III only

**Q61. A 20 ohm and a 60 ohm resistor are connected in series to a DC generator. The voltage across the 20 ohm resistor is 80 volts. The current through the 60 ohm resistor**

- (A) cannot be calculated with the given information
- (B) is about 1.3 A
- (C) is 4.0 A
- (D) 5.0 A

**Q62. An object is placed 10 centimeters from a concave spherical mirror whose radius of curvature is 12 centimeters. The distance of the image from the mirror is**

- (A) 5 cm
- (B) 10 cm
- (C) 15 cm
- (D) 20 cm

**Q63. Two frequencies sounded together produce 3 beats per second. If one of the frequencies is 400 vibrations per second, the other frequency will be?**

- (A) 1200 vib/sec
- (B) 403 vib/sec
- (C) 397 vib/sec
- (D) 133.33 vib/sec

**Q64. X rays consist of**

- (A) a stream of neutrons
- (B) a stream of electrons
- (C) radiation similar to radon
- (D) radiation similar to gamma rays

**Q65. During the time that sound travels 1100 feet in air, light can travel in vacuum a distance of about**

- (A) 1100 miles
- (B) 200000 miles
- (C) 20000 miles
- (D) 11000 km

**Q66. A spacecraft is approaching the earth. Relative to the radio signals it sends out, the signal received on the earth have**

- (A) a lower frequency
- (B) a higher velocity
- (C) a shorter wavelength
- (D) all of the above

**Q67. All of the following pure elements are good electrical conductors except**

- (A) copper
- (B) aluminum
- (C) silver
- (D) iron

**Q68. Which of the following examples of electromagnetic radiation has the most energy per quantum?**

- (A) Radio waves
- (B) Microwaves
- (C) visible light
- (D) X-rays

**Q69. Three capacitors each of value 0.1F are connected in series, then their total capacitance is closest to**

- (A) 0.0333F
- (B) 0.3333F
- (C) 0.3F
- (D) 3.0F

**Q70. Atomic spectra can be explained by**

- (A) The Bohr atomic model
- (B) Quantum Mechanics
- (C) Quantized orbits of electrons
- (D) All of the above

**Q71. When  ${}^{235}_{92}\text{U}$  decays by alpha particle emission, the daughter nuclei formed is**

- (A)  ${}^{231}_{90}\text{Th}$
- (B)  ${}^{233}_{91}\text{Pa}$
- (C)  ${}^{234}_{91}\text{Pa}$
- (D)  ${}^{239}_{94}\text{Pu}$

**Q72. We can increase the capacitance of a parallel plate capacitor by**

- (A) cooling the plates.
- (B) bringing the plates closer together.
- (C) decreasing the dielectric constant of the material between the plates.
- (D) increasing the voltage across the plates.

**Q73. Terminal velocity is usually defined as the**

- (A) velocity of shock waves
- (B) velocity of light in water
- (C) velocity at which air resistance balances gravity
- (D) All of the above

**Q74. Our sun releases energy by nuclear fusion reactions. What actually happens?**

- (A) Hydrogen is converted to helium
- (B) Helium is converted to hydrogen
- (C) Two nuclei change into one nucleus
- (D) One nucleus splits into two nuclei

**Q75. Saponification results in the formation of:**

- (A) Glass
- (B) Polymer
- (C) fertilizer
- (D) Soap

## **SECTION: 4**

### **Maths**

#### **Guidelines**

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**Click on Next to proceed further.**

**Q76. What is the Arithmetic Mean of the following data 3,6,9,12,15.**

- (A) 7
- (B) 9
- (C) 12
- (D) 8

**Q77. Find two number whose sum is 28 and the difference is 4 \_\_\_\_\_?**

- (A) 12,16
- (B) 18,10
- (C) 15,13
- (D) 14,12

**Q78. 1 acre is equal to \_\_\_\_\_square feet?**

- (A) 45434 square feet
- (B) 34343 square feet
- (C) 43572 square feet
- (D) 43560 square feet

**Q79. What is the Sum of First 70 even Numbers?**

- (A) 4970
- (B) 4950
- (C) 4900
- (D) 4980

**Q80. What is the Sum of First 70 Odd Numbers?**

- (A) 4900
- (B) 4970
- (C) 4960
- (D) None of these

**Q81. 40 is subtracted from 60% of a number, the result is 50. Find the number?**

- (A) 150
- (B) 140
- (C) 130
- (D) 110

**Q82. 85% of a number is added to 24, the result is the same number. Find the number?**

- (A) 150
- (B) 140
- (C) 130
- (D) 160

**Q83. 60% of a number is added to 120, the result is the same number. Find the number?**

- (A) 300
- (B) 200
- (C) 400
- (D) 500

**Q84. 25% of 30% of 45% is equal to \_\_\_\_\_?**

- (A) 0.03375
- (B) 0.3375
- (C) 3.375
- (D) 33.75

**Q85. 40% of a number is more than 20% of 650 by 190. Find the number?**

- (A) 600
- (B) 700
- (C) 800
- (D) 900

**Q86. How much is 80% of 40 is greater than  $\frac{4}{5}$  of 25?**

- (A) 6
- (B) 9
- (C) 4
- (D) 12

**Q87. A, B and C together earn Rs.150 per day while A and C together earn Rs.94 and B and C together earn Rs.76. The daily earning of C is:\_\_\_\_\_?**

- (A) 10 Rs,
- (B) 15 Rs,
- (C) 20 Rs.
- (D) 25 Rs.

**Q88. If 3 men or 4 women can construct a wall in 43 days, then the number of days that 7 men and 5 women take to construct it is :**

- (A) 12 days
- (B) 14 days



- (C) 16 days
- (D) 18 days

**Q89.** The average of two numbers is  $XY$ . If one number is equal to  $X$ , the other number is equal to \_\_\_\_\_?

- (A)  $X$
- (B)  $2Y$
- (C)  $XY - X$
- (D)  $2XY - 2X$

**Q90.** If the average marks of three batches of 55, 60 and 45 students respectively is 50, 55, 60, then the average marks of all the students is \_\_\_\_\_?

- (A) 53.33
- (B) 54.68
- (C) 55
- (D) None of these

**Q91.** The average weight of 16 boys in a class is 50.25 kg and that of the remaining 8 boys is 45.15 kg. Find the average weights of all the boys in the class.

- (A) 47.55 kg
- (B) 48 kg
- (C) 48.55 kg
- (D) 49.25 kg

**Q92.** The average weight of A, B and C is 45 kg. If the average weight of A and B be 40 kg and that of B and C be 43 kg, then the weight of B is \_\_\_\_\_?

- (A) 17 kg
- (B) 20 kg
- (C) 26 kg
- (D) 31 kg

**Q93.** If the volume and surface area of a sphere is numerically the same then its radius is \_\_\_\_\_?

- (A) 1 unit
- (B) 2 units
- (C) 3 units
- (D) 4 units

**Q94.** A right cylinder and a right circular cone have the same radius and the same volume. The ratio of the height of the cylinder to that of the cone is \_\_\_\_\_?

- (A) 3: 5
- (B) 2: 5
- (C) 3: 1
- (D) 1: 3

**Q95. The radius of a circular cylinder is the same as that of a sphere. Their volumes are equal. The height of the cylinder is \_\_\_\_\_?**

- (A)  $\frac{4}{3}$  times its radius
- (B)  $\frac{2}{3}$  times its radius
- (C) Equal to its radius
- (D) Equal to its diameter

**Q96. The number of solid spheres each of diameter 6 cm, that could be moulded to form a solid metal cylinder of height 45 cm and diameter 4 cm is?**

- (A) 3
- (B) 4
- (C) 5
- (D) 6

**Q97. The length of the wire of 0.2mm radius that can be drawn after melting a solid copper sphere of diameter 18cm?**

- (A) 24.3 m
- (B) 243 m
- (C) 2430 m
- (D) 24300 m

**Q98. If the volumes of two cubes are in the ratio 8: 1, the ratio of their edges is \_\_\_\_\_?**

- (A) 8: 1
- (B)  $2\sqrt{2} : 1$
- (C) 2 : 1
- (D) None of these

**Q99. A metal sheet 27 cm long 8cm broad and 1 cm thick is melted into a cube. The difference between the surface areas of two solids is \_\_\_\_\_?**

- (A) 284 cm<sup>2</sup>
- (B) 286 cm<sup>2</sup>
- (C) 296 cm<sup>2</sup>
- (D) 300 cm<sup>2</sup>

**Q100. If the length, breadth and the height of a cuboid are in the ratio 6: 5: 4 and if the total surface area is 33300 cm<sup>2</sup>, then length breadth and height in cms, are respectively?**

- (A) 90, 85, 60
- (B) 85, 75, 60
- (C) 90, 75, 70
- (D) 90, 75, 60

# Pak-Austria Fachhochschule: Institute of Applied Sciences & Technology Mang, Haripur, Khyber Pakhtunkhwa

<b>Test 1</b>	<b>Test 2</b>	<b>Test 3</b>
1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>English</li> <li>Biology</li> <li>Physics</li> <li>Chemistry</li> </ul>	1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>English</li> <li>Maths</li> <li>Physics</li> <li>Chemistry</li> </ul>	1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>English</li> <li>Computer</li> <li>Physics</li> <li>Maths</li> </ul>
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**Section 1**  
**ENGLISH**

**Guidelines**

**This section has 10 questions, and each question has equal marks.  
Click on Next to proceed further.**

**Q1. .... me, I would be happy to dedicate a few extra hours for the humanitarian cause.**

- A) As of
- B) As for
- C) As from
- D) As to

**Q2. They have a(n)..... on the top prize in the competition.**

- A) advantage
- B) edge
- C) eye
- D) vision

**Q3. Ahmed was true to his ..... when he saved the child's life in the accident but asked for money as a favor from the child's parents.**

- A) colors
- B) tones
- C) character
- D) self

**Q4. Are we ..... to leave on vacation?**

- A) already
- B) altogether
- C) all together
- D) all ready

**Q5. He is very careful. He..... his children to drive his car in rush hour traffic.**

- A) does not allow
- B) did not allow
- C) allowed
- D) allow

**Q6. The coach's insistence on fitness has become ..... He yells at players all the time.**

- A) emotional
- B) dilatory
- C) obsessive
- D) rational

**Q7. They ..... just reaching the office at 5 p.m. when I finished off my work.**

- A) have been
- B) will be
- C) had been
- D) were

**Q8. Would he like the dinner? I ..... very hard to make it delicious.**

- A) will be working
- B) will work
- C) worked
- D) had worked

**Q9. Our group will be ..... by your group at next intersection but the goal of both groups will remain same.**

- A) joined
- B) replaced
- C) ignored
- D) influenced

**Q10. The ..... applauded enthusiastically after the performance was finished.**

- A) audience
- B) spectators
- C) bystanders
- D) onlookers

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- (C) Direct Module Access
- (D) Direct Memory Allocation

**Q42. Which of the following is a storage device?**

- (A) Tape
- (B) Hard Disk
- (C) Floppy Disk
- (D) All of the above

**Q43. Which of the following is first generation of computer?**

- (A) EDSAC
- (B) IBM-1401
- (C) CDC-1604
- (D) ICL-2900

**Q44. IBM 1401 is\_\_\_\_\_?**

- (A) First Generation Computer
- (B) Second Generation Computer
- (C) Third Generation Computer
- (D) Fourth Generation Computer

**Q45. Second Generation computers were developed during\_\_\_\_\_?**

- (A) 1949 to 1955
- (B) 1956 to 1965
- (C) 1965 to 1970
- (D) 1970 to 1990

**Q46. Which of the following devices can be used to directly image printed text?**

- (A) OCR
- (B) OMR
- (C) MICR
- (D) All of above

**Q47. The output quality of a printer is measured by\_\_\_\_\_?**

- (A) Dot per inch
- (B) Dot per sq. inch
- (C) Dots printed per unit time
- (D) All of above

**Q48. In analogue computer\_\_\_\_\_?**

- (A) Input is first converted to digital form
- (B) Input is never converted to digital form
- (C) Output is displayed in digital form
- (D) All of above

**Q49. In latest generation computers, the instructions are executed\_\_\_\_\_?**

- (A) Parallel only
- (B) Sequentially only
- (C) Both sequentially and parallel
- (D) All of above

**Q50. Who designed the first electronics computer – ENIAC?**

- (A) Van-Neumann
- (B) Joseph M. Jacquard
- (C) J. Presper Eckert and John W Mauchly
- (D) All of above

## **Section 3**

## **Statistics**

### **Guidelines**

**This section has 25 questions, and each question has equal marks.  
Click on Next to proceed further.**

**Q51. Which of the following values is used as a summary measure for a sample, such as a sample mean?**

- (A) Population parameter

- (B) Sample parameter
- (C) Sample statistic
- (D) Population mean

**Q52. Which of the following is a branch of statistics?**

- (A) Descriptive statistics
- (B) Inferential statistics
- (C) Industry statistics
- (D) Both A and B

**Q53. The control charts and procedures of descriptive statistics which are used to enhance a procedure can be classified into which of these categories?**

- (A) Behavioral tools
- (B) Serial tools
- (C) Industry statistics
- (D) Statistical tools

**Q54. Which of the following can also be represented as sample statistics?**

- A) Lowercase Greek letters
- (C) Roman letters
- (B) Associated Roman alphabets
- (D) Uppercase Greek letters

**Q55. To which of the following options do individual respondents, focus groups, and panels of respondents belong?**

- (A) Primary data sources
- (B) Secondary data sources
- (C) Itemised data sources
- (D) Pointed data sources

**Q56. If any of the value in data set is negative then it is impossible to compute:\_\_\_\_\_?**

- (A) Arithmetic Mean
- (B) Harmonic Mean
- (C) Geometric Mean
- (D) Mode

**Q57. The most repeated (popular) value in a data set is called \_\_\_\_\_?**

- (A) Median
- (B) Mean
- (C) Mode
- (D) Geometric Mean

**Q58. In a distribution of 10, 20, 30, 40, 50, the x is 30, the sum of deviations from x will be:\_\_\_\_\_?**

- (A) 60
- (B) 30
- (C) Zero
- (D) 15

**Q59. Questionnaire survey method is used to collect \_\_\_\_\_?**

- (A) Secondary data
- (B) Qualitative variable
- (C) Primary data
- (D) None of these

**Q60. A parameter is a measure which is computed from\_\_\_\_\_?**

- (A) Population data
- (B) Sample data
- (C) Test statistics
- (D) None of these

**Q61. The data which have already been collected by some one are called\_\_\_\_\_?**

- (A) Raw data
- (B) Array data
- (C) Secondary data
- (D) Fictitious data

**Q62. The number of accidents in a city during 2012 is\_\_\_\_\_?**

- (A) Discrete variable
- (B) Continuous variable
- (C) Qualitative variable
- (D) Constant

**Q63. The weights of students in a college/school is a\_\_\_\_\_?**

- (A) Discrete Variable
- (B) Continuous Variable
- (C) Qualitative Variable
- (D) None of these

**Q64. Which of the following divides a group of data into four subgroups?**

- (A) Percentiles
- (B) Deciles
- (C) Median
- (D) Quartiles

**Q65. The middle value of an ordered array of numbers is the\_\_\_\_\_?**

- (A) Mode
- (B) Mean
- (C) Median
- (D) Mid-Point

**Q66. According to the empirical rule, approximately what percent of the data should lie within  $\mu \pm \sigma$ ?**

- (A) 75%
- (B) 99.7%
- (C) 90%
- (D) 95%

**Q67. Question 67**

- (A) Option 1
- (B) Option 2
- (C) Option 3
- (D) Option 4

**Q68. Life of a T.V picture tube is a:\_\_\_\_\_?**

- (A) Discrete variable
- (B) Continuous variable
- (C) Qualitative variable
- (D) Constant

**Q69. Proportion becomes percentage when multiplied by\_\_\_\_\_?**

- (A) 1/10
- (B) 1/1000

- (C)  $\frac{1}{100}$
- (D) 100

**Q70. Identify the attribute?**

- (A) Blood group
- (B) Blood Pressure
- (C) Temperature of room
- (D) Religions of people of a country

**Q71. Age of a shopkeeper is the example of \_\_\_\_\_?**

- (A) Qualitative
- (B) Quantitative data
- (C) Variable data
- (D) Continuous data

**Q72. \_\_\_\_\_ data are collected for the first time.**

- (A) Research
- (B) Statistical
- (C) Secondary
- (D) Primary

**Q73. A Constant can assume \_\_\_\_\_ value?**

- (A) One
- (B) Four
- (C) More than value
- (D) Resindent

**Q74. Statistics Laws are true \_\_\_\_\_?**

- (A) In each case
- (B) Average
- (C) Facts
- (D) Field

**Q75. A characteristics that does not change is called \_\_\_\_\_?**

- (A) variable
- (B) Attribute
- (C) Constant
- (D) None of these

## **SECTION: 4**

### **Maths**

#### **Guidelines**

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Click on Next to proceed further.**

**Q76. What is the Arithmetic Mean of the following data 3,6,9,12,15.**

- (A) 7

- (B) 9
- (C) 12
- (D) 8

**Q77. Find two number whose sum is 28 and the difference is 4 \_\_\_\_\_?**

- (A) 12,16
- (B) 18,10
- (C) 15,13
- (D) 14,12

**Q78. 1 acre is equal to \_\_\_\_\_square feet?**

- (A) 45434 square feet
- (B) 34343 square feet
- (C) 43572 square feet
- (D) 43560 square feet

**Q79. What is the Sum of First 70 even Numbers?**

- (A) 4970
- (B) 4950
- (C) 4900
- (D) 4980

**Q80. What is the Sum of First 70 Odd Numbers?**

- (A) 4900
- (B) 4970
- (C) 4960
- (D) None of these

**Q81. 40 is subtracted from 60% of a number, the result is 50. Find the number?**

- (A) 150
- (B) 140
- (C) 130
- (D) 110

**Q82. 85% of a number is added to 24, the result is the same number. Find the number?**

- (A) 150
- (B) 140
- (C) 130
- (D) 160

**Q83. 60% of a number is added to 120, the result is the same number. Find the number?**

- (A) 300
- (B) 200

(C) 400

(D) 500

**Q84. 25% of 30% of 45% is equal to\_\_\_\_\_?**

(A) 0.03375

(B) 0.3375

(C) 3.375

(D) 33.75

**Q85. 40% of a number is more than 20% of 650 by 190. Find the number?**

(A) 600

(B) 700

(C) 800

(D) 900

**Q86. How much is 80% of 40 is greater than  $\frac{4}{5}$  of 25?**

(A) 6

(B) 9

(C) 4

(D) 12

**Q87. A, B and C together earn Rs.150 per day while A and C together earn Rs.94 and B and C together earn Rs.76. The daily earning of C is:\_\_\_\_\_?**

(A) 10 Rs,

(B) 15 Rs,

(C) 20 Rs.

(D) 25 Rs.

**Q88. If 3 men or 4 women can construct a wall in 43 days, then the number of days that 7 men and 5 women take to construct it is :**

(A) 12 days

(B) 14 days

(C) 16 days

(D) 18 days

**Q89. The average of two numbers is XY.If one number is equal to X ,the other number is equal to\_\_\_\_\_?**

(A) X

(B) 2Y

(C) XY-X

(D) 2 XY -2 X



**Q90.** If the average marks of three batches of 55, 60 and 45 students respectively is 50, 55, 60, then the average marks of all the students is \_\_\_\_\_?

- (A) 53.33
- (B) 54.68
- (C) 55
- (D) None of these

**Q91.** The average weight of 16 boys in a class is 50.25 kg and that of the remaining 8 boys is 45.15 kg. Find the average weights of all the boys in the class.

- (A) 47.55 kg
- (B) 48 kg
- (C) 48.55 kg
- (D) 49.25 kg

**Q92.** The average weight of A, B and C is 45 kg. If the average weight of A and B be 40 kg and that of B and C be 43 kg, then the weight of B is \_\_\_\_\_?

- (A) 17 kg
- (B) 20 kg
- (C) 26 kg
- (D) 31 kg

**Q93.** If the volume and surface area of a sphere is numerically the same then it's radius is \_\_\_\_\_?

- (A) 1 unit
- (B) 2 units
- (C) 3 units
- (D) 4 units

**Q94.** A right cylinder and a right circular cone have the same radius and the same volume. The ratio of the height of the cylinder to that of the cone is \_\_\_\_\_?

- (A) 3: 5
- (B) 2: 5
- (C) 3: 1
- (D) 1: 3

**Q95.** The radius of a circular cylinder is the same as that of a sphere. Their volumes are equal. The height of the cylinder is \_\_\_\_\_?

- (A)  $\frac{4}{3}$  times its radius
- (B)  $\frac{2}{3}$  times its radius
- (C) Equal to it's radius
- (D) Equal to it's diameter

**Q96.** The number of solid spheres each of diameter 6 cm, that could be moulded to form a solid metal cylinder of height 45 cm and diameter 4 cm is?

- (A) 3
- (B) 4
- (C) 5
- (D) 6

**Q97. The length of the wire of 0.2mm radius that can be drawn after melting a solid copper sphere of diameter 18cm?**

- (A) 24.3 m
- (B) 243 m
- (C) 2430 m
- (D) 24300 m

**Q98. If the volumes of two cubes are in the ratio 8: 1, the ratio of their edges is\_\_\_\_\_?**

- (A) 8: 1
- (B)  $2\sqrt{2} : 1$
- (C) 2 : 1
- (D) None of these

**Q99. A metal sheet 27 cm long 8cm broad and 1 cm thick is melted into a cube. The difference between the surface areas of two solids is\_\_\_\_\_?**

- (A) 284 cm<sup>2</sup>
- (B) 286 cm<sup>2</sup>
- (C) 296 cm<sup>2</sup>
- (D) 300 cm<sup>2</sup>

**Q100. If the length, breadth and the height of a cuboid are in the ratio 6: 5: 4 and if the total surface area is 33300 cm<sup>2</sup>, then length breadth and height in cms, are respectively?**

- (A) 90, 85, 60
- (B) 85, 75, 60
- (C) 90, 75, 70
- (D) 90, 75, 60

# Pak-Austria Fachhochschule: Institute of Applied Sciences & Technology Mang, Haripur, Khyber Pakhtunkhwa

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**Section 1**  
**ENGLISH**

**Guidelines**

**This section has 10 questions, and each question has equal marks.  
Click on Next to proceed further.**

**Q1. .... me, I would be happy to dedicate a few extra hours for the humanitarian cause.**

- A) As of
- B) As for
- C) As from
- D) As to

**Q2. They have a(n)..... on the top prize in the competition.**

- A) advantage
- B) edge
- C) eye
- D) vision

**Q3. Ahmed was true to his ..... when he saved the child's life in the accident but asked for money as a favor from the child's parents.**

- A) colors
- B) tones
- C) character
- D) self

**Q4. Are we ..... to leave on vacation?**

- A) already
- B) altogether
- C) all together
- D) all ready

**Q5. He is very careful. He..... his children to drive his car in rush hour traffic.**

- A) does not allow
- B) did not allow
- C) allowed
- D) allow

**Q6. The coach's insistence on fitness has become ..... He yells at players all the time.**

- A) emotional
- B) dilatory
- C) obsessive
- D) rational

**Q7. They ..... just reaching the office at 5 p.m. when I finished off my work.**

- A) have been
- B) will be
- C) had been
- D) were

**Q8. Would he like the dinner? I ..... very hard to make it delicious.**

- A) will be working
- B) will work
- C) worked
- D) had worked

**Q9. Our group will be ..... by your group at next intersection but the goal of both groups will remain same.**

- A) joined
- B) replaced
- C) ignored
- D) influenced

**Q10. The ..... applauded enthusiastically after the performance was finished.**

- A) audience
- B) spectators
- C) bystanders
- D) onlookers

## **SECTION: 2**

### **Computer Science**

#### **Guidelines**

**This section has 40 questions, and each question has equal marks.**

**Click on Next to proceed further.**

**Q11. The term 'Computer' is derived from\_\_\_\_\_?**

- (A) Latin
- (B) German
- (C) French
- (D) Arabic

**Q12. Who is the father of Computer?**

- (A) Allen Turing
- (B) Charles Babbage
- (C) Simur Cray
- (D) Augusta Adaming

**Q13. The basic operations performed by a computer are\_\_\_\_\_?**

- (A) Arithmetic operation
- (B) Logical operation
- (C) Storage and relative
- (D) All the above

**Q14. Who is the father of Internet ?**

- (A) Chares Babbage
- (B) Vint Cerf
- (C) Denis Riche
- (D) Martin Cooper

**Q15. If a computer has more than one processor, then it is known as\_\_\_\_\_?**

- (A) Uni-process
- (B) Multiprocessor
- (C) Multi-threaded
- (D) Multi-programming

**Q16. WAN stands for\_\_\_\_\_?**

- (A) Wap Area Network
- (B) Wide Area Network
- (C) Wide Array Net
- (D) Wireless Area Network

**Q17 \_\_\_\_\_ is called the father of modern digital computer?**

- (A) Allen Turing
- (B) Blaise Pascal
- (C) Charles Babbage
- (D) J.H Muller

**Q18 Who is the father of Computer science?**

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**Q19 CPU contains\_\_\_\_\_?**

- (A) a card reader and a printing device
- (B) an analytical engine and a control unit
- (C) a control unit and an arithmetic logic unit
- (D) an arithmetic logic unit and a card reader

**Q20. Which of the following controls the process of interaction between the user and the operating system?**

- (A) User interface
- (B) Language translator
- (C) Platform
- (D) Screen saver

**Q21. The first computers were programmed using\_\_\_\_\_?**

- (A) Assembly language
- (B) Machine language
- (C) Source code
- (D) Object code

**Q22. Coded entries which are used to gain access to a computer system are called\_\_\_\_\_?**

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**Q42. Which of the following is a storage device?**

- (A) Tape
- (B) Hard Disk
- (C) Floppy Disk
- (D) All of the above

**Q43. Which of the following is first generation of computer?**

- (A) EDSAC
- (B) IBM-1401
- (C) CDC-1604
- (D) ICL-2900

**Q44. IBM 1401 is\_\_\_\_\_?**

- (A) First Generation Computer
- (B) Second Generation Computer
- (C) Third Generation Computer
- (D) Fourth Generation Computer

**Q45. Second Generation computers were developed during\_\_\_\_\_?**

- (A) 1949 to 1955
- (B) 1956 to 1965
- (C) 1965 to 1970
- (D) 1970 to 1990

**Q46. Which of the following devices can be used to directly image printed text?**

- (A) OCR
- (B) OMR
- (C) MICR
- (D) All of above

**Q47. The output quality of a printer is measured by\_\_\_\_\_?**

- (A) Dot per inch
- (B) Dot per sq. inch
- (C) Dots printed per unit time
- (D) All of above

**Q48. In analogue computer\_\_\_\_\_?**

- (A) Input is first converted to digital form
- (B) Input is never converted to digital form
- (C) Output is displayed in digital form
- (D) All of above

**Q49. In latest generation computers, the instructions are executed\_\_\_\_\_?**

- (A) Parallel only
- (B) Sequentially only
- (C) Both sequentially and parallel
- (D) All of above

**Q50. Who designed the first electronics computer – ENIAC?**

- (A) Van-Neumann
- (B) Joseph M. Jacquard
- (C) J. Presper Eckert and John W Mauchly
- (D) All of above

### **Section 3**

### **Economics**

#### **Guidelines**

**This section has 25 questions, and each question has equal marks.  
Click on Next to proceed further.**

**Q51. Who is called the father of Economics?**

- (A) J.P Kense
- (B) David Ricordo
- (C) Adam Smith

(D) Mankew

**Q52. For economists, the word “utility” means:**

- (A) versatility and flexibility
- (B) rationality
- (C) pleasure and satisfaction
- (D) purposefulness

**Q53. In economics, the pleasure, happiness, or satisfaction received from a product is called \_\_\_\_\_?**

- (A) marginal cost
- (B) rational outcome
- (C) status fulfillment
- (D) utility

**Q54. According to economists, economic self-interest:**

- (A) is a reality that underlies economic behavior
- (C) has the same meaning as selfishness
- (B) is more characteristic of men than of women
- (D) is usually self-defeating

**Q55. Resources in an economy?**

- (A) Are always found
- (B) Can never decrease
- (C) Always increase over time
- (D) Are limited at any moment in time

**Q56. A recession is ?**

- (A) a period of declining prices.
- (B) a period of declining unemployment
- (C) a period during which aggregate output declines.
- (D) a period of very rapidly declining prices.

**Q57. The concept of opportunity cost ?**

- (A) is relevant only for a capitalist economy like the United States.
- (B) Suggests a major increase in public health care spending means an expansion in other areas will be harder to achieve.
- (C) Suggests all our wants can be achieved.
- (D) Would be relevant if we eliminated poverty

**Q58. In a planned or command economy, all the economics decisions are taken by the ?**

- (A) Consumers
- (B) voters
- (C) government
- (D) Workers

**Q59. Which of the following involves a trade – off ?**

- (A) Taking a nap
- (B) All of these answers involve trade-offs
- (C) Watching a football game on Saturday afternoon
- (D) Going to university

**Q60. The Phillips curve shows that ?**

- (A) the business cycle has been eliminated
- (B) an increase in inflation temporarily increases unemployment.
- (C) inflation and unemployment are unrelated in the short run.
- (D) a decrease in inflation temporarily increases unemployment.

**Q61. Productivity can be increased by ?**

- (A) improving the education of workers
- (B) raising union wages.
- (C) raising minimum wages.
- (D) restricting trade with foreign countries.

**Q62. The opportunity cost of a good is \_\_\_\_\_?**

- (A) the time lost in finding it
- (B) the quantity of other goods sacrificed to get another unit of that good
- (C) the expenditure on the good
- (D) the loss of interest in using savings

**Q63. In a free market?**

- (A) government intervenes
- (B) government plan production
- (C) government interferes
- (D) Prices adjust to reconcile scarcity and desires

**Q64. The retail price index is used to \_\_\_\_\_?**

- (A) construct price lists
- (B) compare shop prices
- (C) measure changes in the cost of living
- (D) None of the above

**Q65. On a graph, a positive linear relationship \_\_\_\_\_?**

- (A) moves down to the right
- (B) moves up to the left
- (C) moves up to the right
- (D) moves down to the left

**Q66. When we know the quantity of a product that buyers wish to purchase at each possible price we know \_\_\_\_\_?**

- (A) Demand
- (B) Supply
- (C) Excess demand
- (D) Excess supply

**Q67. The equilibrium price clears the market it is the price at which \_\_\_\_\_?**

- (A) Everything is sold
- (B) Buyers spend all their money
- (C) Quantity demanded equal quantity supplied
- (D) Excess demanded equals quantity

**Q68. A demand curve can shift because changing ?**

- (A) incomes
- (B) prices of related goods
- (C) tastes
- (D) all of the above

**Q69. If a price increase of good A increases the quantity demanded of good B, then good B is a \_\_\_\_\_?**

- (A) substitute good
- (B) complementary good
- (C) bargain
- (D) inferior good

**Q70. The basic economic problems will not be solved by ?**

- (A) Market forces

- (B) Government intervention
- (C) A mixture of government intervention and the free market
- (D) The creation of unlimited resources

**Q71. Inflation is \_\_\_\_\_?**

- (A) a decrease in the overall price level.
- (B) an increase in the overall price level.
- (C) an increase in the overall level of economic activity.
- (D) a decrease in the overall level of economics activity

**Q72. Unemployment means that ?**

- (A) there is excess demand in the labor market
- (B) there are some people who will not work at the going wage rate.
- (C) people are not willing to work at the going wage rate.
- (D) at the going wage rate, there are people who want to work but cannot find work.

**Q73. In a free market system, the amount of goods and services that any one household gets depends upon its ?**

- (A) income
- (B) income and wealth
- (C) wealth
- (D) wage and interest income

**Q74. A rational person does not act unless ?**

- (A) the action is ethical
- (B) The action produces marginal costs that exceed marginal benefits.
- (C) The action produces marginal benefits that exceed marginal costs.
- (D) The action makes money for the person.

**Q75. Which of the following products would be least capable of producing an externality?**

- (A) inoculations against disease
- (B) cigarettes
- (C) food
- (D) education

## **SECTION: 4**

### **Maths**

#### **Guidelines**

**This section has 25 questions, and each question has equal marks.  
Click on Next to proceed further.**

**Q76. What is the Arithmetic Mean of the following data 3,6,9,12,15.**

- (A) 7
- (B) 9
- (C) 12
- (D) 8

**Q77. Find two number whose sum is 28 and the difference is 4 \_\_\_\_\_?**

- (A) 12,16
- (B) 18,10
- (C) 15,13
- (D) 14,12

**Q78. 1 acre is equal to \_\_\_\_\_ square feet?**

- (A) 45434 square feet
- (B) 34343 square feet
- (C) 43572 square feet
- (D) 43560 square feet

**Q79. What is the Sum of First 70 even Numbers?**

- (A) 4970
- (B) 4950
- (C) 4900
- (D) 4980

**Q80. What is the Sum of First 70 Odd Numbers?**

- (A) 4900
- (B) 4970
- (C) 4960
- (D) None of these

**Q81. 40 is subtracted from 60% of a number, the result is 50. Find the number?**

- (A) 150
- (B) 140
- (C) 130
- (D) 110

**Q82. 85% of a number is added to 24, the result is the same number. Find the number?**

- (A) 150
- (B) 140
- (C) 130
- (D) 160

**Q83. 60% of a number is added to 120, the result is the same number. Find the number?**

- (A) 300
- (B) 200
- (C) 400
- (D) 500

**Q84. 25% of 30% of 45% is equal to \_\_\_\_\_?**

- (A) 0.03375
- (B) 0.3375
- (C) 3.375
- (D) 33.75

**Q85. 40% of a number is more than 20% of 650 by 190. Find the number?**

- (A) 600
- (B) 700
- (C) 800
- (D) 900

**Q86. How much is 80% of 40 is greater than  $\frac{4}{5}$  of 25?**

- (A) 6
- (B) 9
- (C) 4
- (D) 12

**Q87. A, B and C together earn Rs.150 per day while A and C together earn Rs.94 and B and C together earn Rs.76. The daily earning of C is:\_\_\_\_\_?**

- (A) 10 Rs,
- (B) 15 Rs,
- (C) 20 Rs.
- (D) 25 Rs.

**Q88. If 3 men or 4 women can construct a wall in 43 days, then the number of days that 7 men and 5 women take to construct it is :**

- (A) 12 days
- (B) 14 days
- (C) 16 days
- (D) 18 days

**Q89. The average of two numbers is XY.If one number is equal to X ,the other number is equal to\_\_\_\_\_?**

- (A) X
- (B) 2Y
- (C) XY-X
- (D)  $2XY - 2X$

**Q90. If the average marks of three batches of 55, 60 and 45 students respectively is 50, 55, 60, then the average marks of all the students is\_\_\_\_\_?**

- (A) 53.33
- (B) 54.68



(C) 55

(D) None of these

**Q91.** The average weight of 16 boys in a class is 50.25 kg and that of the remaining 8 boys is 45.15 kg. Find the average weights of all the boys in the class.

(A) 47.55 kg

(B) 48 kg

(C) 48.55 kg

(D) 49.25 kg

**Q92.** The average weight of A, B and C is 45 kg. If the average weight of A and B be 40 kg and that of B and C be 43 kg, then the weight of B is \_\_\_\_\_?

(A) 17 kg

(B) 20 kg

(C) 26 kg

(D) 31 kg

**Q93.** If the volume and surface area of a sphere is numerically the same then it's radius is \_\_\_\_\_?

(A) 1 unit

(B) 2 units

(C) 3 units

(D) 4 units

**Q94.** A right cylinder and a right circular cone have the same radius and the same volume. The ratio of the height of the cylinder to that of the cone is \_\_\_\_\_?

(A) 3: 5

(B) 2: 5

(C) 3: 1

(D) 1: 3

**Q95.** The radius of a circular cylinder is the same as that of a sphere. Their volumes are equal. The height of the cylinder is \_\_\_\_\_?

(A)  $\frac{4}{3}$  times its radius

(B)  $\frac{2}{3}$  times its radius

(C) Equal to it's radius

(D) Equal to it's diameter

**Q96.** The number of solid spheres each of diameter 6 cm, that could be moulded to form a solid metal cylinder of height 45 cm and diameter 4 cm is?

(A) 3

(B) 4

(C) 5

(D) 6

**Q97. The length of the wire of 0.2mm radius that can be drawn after melting a solid copper sphere of diameter 18cm?**

- (A) 24.3 m
- (B) 243 m
- (C) 2430 m
- (D) 24300 m

**Q98. If the volumes of two cubes are in the ratio 8: 1, the ratio of their edges is \_\_\_\_\_?**

- (A) 8: 1
- (B)  $2\sqrt{2} : 1$
- (C) 2 : 1
- (D) None of these

**Q99. A metal sheet 27 cm long 8cm broad and 1 cm thick is melted into a cube. The difference between the surface areas of two solids is \_\_\_\_\_?**

- (A) 284 cm<sup>2</sup>
- (B) 286 cm<sup>2</sup>
- (C) 296 cm<sup>2</sup>
- (D) 300 cm<sup>2</sup>

**Q100. If the length, breadth and the height of a cuboid are in the ratio 6: 5: 4 and if the total surface area is 33300 cm<sup>2</sup>, then length breadth and height in cms, are respectively?**

- (A) 90, 85, 60
- (B) 85, 75, 60
- (C) 90, 75, 70
- (D) 90, 75, 60

# Pak-Austria Fachhochschule: Institute of Applied Sciences & Technology Mang, Haripur, Khyber Pakhtunkhwa

<b>Test 1</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>English</li> <li>Biology</li> <li>Physics</li> <li>Chemistry</li> </ul>	<b>Test 2</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>English</li> <li>Maths</li> <li>Physics</li> <li>Chemistry</li> </ul>	<b>Test 3</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>English</li> <li>Maths</li> <li>Physics</li> <li>Computer</li> </ul>
<b>Test 4</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>English</li> <li>Math</li> <li>Statistics</li> <li>Computer Science</li> </ul>	<b>Test 5</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>English</li> <li>Maths</li> <li>Economics</li> <li>Computer Science</li> </ul>	<b>Test 6</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>English</li> <li>Maths</li> <li>Physics</li> <li>Chemistry</li> </ul>
<b>Test 7</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>English</li> <li>Maths</li> <li>Physics</li> <li>Computer</li> </ul>	<b>Test 8</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>Test Completion</li> <li>Sentence Equivalence</li> <li>Reading Comprehension</li> <li>Analytical Section</li> </ul>	<b>Test 9</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 3 sections. <ul style="list-style-type: none"> <li>Drawing</li> <li>Aptitude</li> <li>Arithmetic</li> </ul>
<b>Test 10</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 2 sections. <ul style="list-style-type: none"> <li>Drawing</li> <li>Aptitude</li> </ul>	<b>Test 11</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 3 sections. <ul style="list-style-type: none"> <li>English</li> <li>Arithmetics</li> <li>Analytical</li> </ul>	<b>Test 12</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 3 sections. <ul style="list-style-type: none"> <li>English</li> <li>General Science</li> <li>Analytical</li> </ul>

## **Section 1**

### **Grammar**

#### **Guidelines**

**This section has 30 questions, and each question carry equal marks.**

**Click on Next to proceed further.**

**Q1.** If I have money, I \_\_\_\_\_ it tomorrow.

- a. will purchase
- b. would purchase
- c. have purchase
- d. have purchased

**Q2.** Cannon had \_\_\_\_\_ unique qualities \_\_\_\_\_ it was used widely in ancient times

- a. such, that
- b. such, so
- c. that, since
- d. that, that

**Q3.** While UK has earned record revenue this year, \_\_\_\_\_ well behind in exports.

- a. it still lag
- b. it still lags
- c. it lag still
- d. it lags still

**Q4.** She succeeded by \_\_\_\_\_ hard.

- a. Work
- b. Working
- c. continuous work
- d. continuous working

**Q5.** I enjoy \_\_\_\_\_ tennis.

- a. to play
- b. plays
- c. Playing
- d. to playing

**Q6.** Most of the guests arrived \_\_\_\_\_ buses.

- a. With
- b. By
- c. From
- d. In

**Q7.** On leaving the shopping plaza, Kate was robbed \_\_\_\_\_ purse.

- a. by her
- b. by hers
- c. of her
- d. of hers

**Q8.** Most of the guests arrived \_\_\_\_\_ buses.

- a. with
- b. by
- c. from
- d. in

**Q9.** You can go neither by train \_\_\_\_\_ by bus.

- a. No
- b. Nor
- c. Or
- d. And

**Q10.** When she was younger, she \_\_\_\_\_ five kilometres a day.

- a. Walked
- b. had walked
- c. has been walking
- d. had been walking

**Q11.** She \_\_\_\_\_ for the upcoming tennis tournament.

- a. Trains
- b. Is training
- c. Will training
- d. Is going to train

**Q12.** I \_\_\_\_\_ New Zealand next year.

- a. go
- b. will go
- c. going
- d. will go to

**Q13.** There are some vacant rooms \_\_\_\_\_ in flats and shared houses.

- a. both
- b. between
- c. either
- d. neither

**Q14.** The sun rises \_\_\_\_\_ the east.

- a. in
- b. On
- c. from
- d. towards

**Q15.** Nitrogen gas is in abundance \_\_\_\_\_ the Earth.

- a. in
- b. On
- c. Above
- d. along

**Q16.** For good health, she \_\_\_\_\_ bed earlier.

- a. Should go
- b. Should go to
- c. Should goes
- d. Should goes to

**Q17.** If you have time, you \_\_\_\_\_ the nature museum.

- a. should visit
- b. should visited
- c. have to visit
- d. have to visited

**Q18.** It is our problem, not \_\_\_\_\_.

- a. their
- b. their's
- c. there

d. there's

**Q19.** The number of guests at the party \_\_\_\_\_ amazing.

- a. was
- b. were
- c. had
- d. had have

**Q20.** \_\_\_\_\_ 600 and 800 B.C, Olympics were held in Athens, Greece.

- a. during
- b. unless
- c. until
- d. between

**Q21.** She \_\_\_\_\_ the driving test to get a license.

- a. Should pass
- b. Should have passed
- c. Have pass
- d. Have to passed

**Q22.** As there were no buses, she \_\_\_\_\_ home last night.

- a. has
- b. has to walked
- c. had to walk
- d. had to walked

**Q23.** \_\_\_\_\_ these books belong to?

- a. Who do
- b. Whom do
- c. Whose does
- d. Whom does

**Q24.** If John \_\_\_\_\_ earlier, he would always be on time.

- a. Get up
- b. Got up
- c. Had get up
- d. Had got up

**Q25.** jolie \_\_\_\_\_ a book yesterday.

- a. Had read
- b. readed
- c. red
- d. read

**Q26.** It was raining yesterday, so we \_\_\_\_\_ out.

- a. Did not go
- b. Did not went
- c. Would not go
- d. Would not went

**Q27.** I \_\_\_\_\_ what was happening.

- a. couldn't understood
- b. couldn't understand
- c. was not able to understood
- d. was not able to understand

**Q28.** f you work hard, you \_\_\_\_\_ good marks.

- a. Would get
- b. Would got

- c. Will get
- d. Will got

**Q29.** If you \_\_\_\_\_ hard, you would not have failed in the exams.

- a. Have work
- b. Have worked
- c. Had worked
- d. Had work

**Q30.** If the camera was working, we \_\_\_\_\_ a movie.

- a. Could make
- b. Could made
- c. Would make
- d. Would made

## **SECTION: 2**

### **Vocabulary**

#### **Guidelines**

**This section has 20 questions, and each question has equal marks.**

**Click on Next to proceed further.**

**Q31.** Kindly ask him to play the piano, he is a \_\_\_\_\_ pianist.

- a. Fragile
- b. Virtuoso
- c. Voracious
- d. Vulnerable

**Q32.** Please be careful, the luggage contains \_\_\_\_\_ items.

- a. Fragile
- b. Virtuoso
- c. Voracious
- d. Vulnerable

**Q33** Due to gas leakage, all people especially children are

- a. fragile
- b. Virtuoso
- c. Vulnerable
- d. Voracious

**Q34** He is a \_\_\_\_\_ person, he eats all the time.

- a. Skilled
- b. Voracious
- c. Slanderous
- d. Biased

**Q35** Hyena is a \_\_\_\_\_ animal.

- a. Enigma
- b. Embargo
- c. Vicious
- d. Voracious

**Q36.** Job in this department \_\_\_\_\_ a lot of hard work.

- a. Bears
- b. Exigence
- c. Entails
- d. Curtails

**Q37** We are running out of time, we need to \_\_\_\_\_ the discussion.

- a. Bear
- b. Exigent
- c. Entail

d. Curtail

Q38 He was \_\_\_\_\_ to give this confessional statement.

- a. Absurd
- b. Coerced
- c. Onslaught
- d. Imprisoned

Q39 The front-line soldiers survived the \_\_\_\_\_ by the enemy.

- a. Nepotism
- b. Bland
- c. Onslaught
- d. Panacea

Q40 He was \_\_\_\_\_ from all charges leveled against him.

- a. Apprehended
- b. Judged
- c. Enigmatic
- d. Exonerated

Q41. Choose the best option that expresses the meaning of the word "Obloquy"

- a. sermon
- b. approbium
- c. fetid
- d. Obsession

Q42. They hate it when their football team \_\_\_\_\_

- a. loses
- b. looses
- c. lost
- d. losing

Q43. By the time he was thirty, he \_\_\_\_\_ many tournaments.

- a. won
- b. has won
- c. has had won
- d. has wining

Q44. Even if she \_\_\_\_\_ them, they wouldn't have come.

- a. asked
- b. had asked
- c. would ask
- d. would have asked

Q45. It was raining heavy yesterday, so they \_\_\_\_\_ out.

- a. Did not go
- b. Did not went
- c. Would not go
- d. Would not went

Q46. Yesterday she got a call from her old friend, and the friend \_\_\_\_\_ her the whole story.

- a. Tell
- b. tells
- c. told
- d. has been telling

Q47. \_\_\_\_\_ students achieve good marks if they study hard.

- a. most
- b. most of



- c. most of the
- d. the most

Q48. If she was free, she \_\_\_\_\_ to you.

- a. talked
- b. can talked
- c. could talked
- d. would talked

Q49. The number of friends and family members at the party \_\_\_\_\_ amazing.

- a. was
- b. were
- c. have
- d. have had

Q50. If you work really hard, you \_\_\_\_\_ good score in the upcoming examination.

- a. Will get
- b. Would get
- c. Will got
- d. Would got

### **Section 3**

## **Reading Comprehension**

### **Guidelines**

**This section has 30 questions, and each question has equal marks.**

**Click on Next to proceed further.**

Many great inventions are initially greeted with ridicule and disbelief. The invention of the airplane was no exception. Although many people who heard about the first powered flight on December 17, 1903 were excited and impressed, others reacted with peals of laughter. The idea of flying an aircraft was repulsive to some people. Such people called Wilbur and Orville Wright, the inventors of the first flying machine, impulsive fools. Negative reactions, however, did not stop the Wrights. Impelled by their desire to succeed, they continued their experiments in aviation.

Orville and Wilbur Wright had always had a compelling interest in aeronautics and mechanics. As young boys they earned money by making and selling kites and mechanical toys. Later, they designed a newspaper-folding machine, built a printing press, and operated a bicycle-repair shop. In 1896, when they read about the death of Otto Lilienthal, the brothers' interest in flight grew into a compulsion.

Lilienthal, a pioneer in hang-gliding, had controlled his gliders by shifting his body in the desired direction. This idea was repellent to the Wright brothers, however, and they searched for more efficient methods to control the balance of airborne vehicles. In 1900 and 1901, the Wrights tested numerous gliders and developed control techniques. The brothers' inability to obtain enough lift power for the gliders almost led them to abandon their efforts.

After further study, the Wright brothers concluded that the published tables of air pressure on curved surfaces must be wrong. They set up a wind tunnel and began a series of experiments with model wings. Because of their efforts, the old tables were repealed in time and replaced by the first reliable figures for air pressure on curved surfaces. This work, in turn, made it possible for the brothers to design a machine that would fly. In 1903 the Wrights built their first airplane, which cost less than \$1,000. They even designed and built their own source of propulsion—a lightweight gasoline engine. When they started the engine on December 17, the airplane pulsated wildly before taking off. The plane managed to stay aloft for 12 seconds, however, and it flew 120 feet.

By 1905, the Wrights had perfected the first airplane that could turn, circle, and remain airborne for half an hour at a time. Others had flown in balloons and hang gliders, but the Wright brothers were the first to build a full-size machine that could fly under its own power. As the contributors of one of the most outstanding engineering achievements in history, the Wright brothers are accurately called the fathers of aviation.

Q51 The idea of flying an aircraft was \_\_\_\_\_ to some people.

- a. boring
- b. distasteful
- c. exciting
- d. needless

Q52. People thought that the Wright brothers had \_\_\_\_\_.

- a. acted without thinking
- b. been negatively influenced
- c. been too cautious
- d. been mistaken

Q53. The Wrights' interest in flight grew into a \_\_\_\_\_.

- a. financial empire
- b. plan
- c. need to act
- d. foolish thought

Q54. Lilienthal's idea about controlling airborne vehicles was \_\_\_\_\_ the Wrights.

- a. proven wrong by
- b. opposite to the ideas of
- c. disliked by
- d. accepted by

Q55. The old tables were \_\_\_\_\_ and replaced by the first reliable figures for air pressure on curved surfaces.

- a. Destroyed
- b. Invalidated
- c. Multiplied
- d. Approved

Q56. The Wrights designed and built their own source of \_\_\_\_\_.

- a. force for moving forward
- b. force for turning around
- c. turning
- d. force for going backward

## Paragraph 2:

What, one wonders, is the lowest common denominator of Indian culture today? The attractive Hema Malini? The songs of Vinidh Barati? The attractive Hema Malini? The sons of Vinidh Barati? Or the mouth-watering Masala Dosa? Delectable as these may be, each yield pride of place to that false (?) symbol of a new era-the synthetic fibre. In less than twenty years the nylon sari and the terylene shirt have swept the countryside, penetrated to the farthest corners of the land and persuaded every common man, woman and child that the key to success in the present-day world lie in artificial fibers: glass nylon, crepe nylon, tery mixes, polyesters and what have you. More than the bicycles, the wristwatch or the transistor radio, synthetic clothes have come to represent the first step away from the village square. The village lass treasures the flashy nylon sari in her trousseau most delay; the village youth gets a great kick out of his cheap terrycot shirt and trousers, the nearest he can approximate to the expensive synthetic sported by his wealthy citybred contemporaries. And the Neo-rich craze for 'phoren' is nowhere more apparent than in the price

that people will pay for smuggled, stolen, begged borrowed second hand or thrown away synthetics. Alas, even the uniformity of nylon.

Q57. The lowest common denominator' of the Indian culture today is

- a. Hema Malini
- b. Songs of Vividh Barati
- c. Masala Dosa
- d. Synthetic fibre

Q58. The synthetic fibre has –

- a. Always been popular in India
- b. Become popular during the last twenty years
- c. Never been popular the last twenty years
- d. Been as popular as other kinds of fibre

Q59. The latest symbol of modernity for the rural people is –

- a. The bicycle
- b. The wristwatch
- c. The transistor
- d. The synthetic cloth

Q60. The tern 'Neo-rich' means –

- a. The aristocracy
- b. The industrialists
- c. The newly rich people
- d. The common people

Q61. The tone of the passage is –

- a. Tragic
- b. Ironic
- c. Sombre
- d. Satiric

### Paragraph 3:

Most people who bother with the matter at all would admit that the English language is in a bad way, but it is generally assumed that we cannot by conscious action do anything about it. Our civilization is decadent and our language-so the argument runs-must inevitably share in the general collapse. It follows that any struggle against the abuse of language is a sentimental archaism, like preferring candles to electric light or hansom cabs to aeroplanes. Underneath this lies the half-conscious belief that language is natural growth and not an instrument which we shape for our own purposes.

Now it is clear that the decline of a language must ultimately have political and economic causes it is not due simply to the bad influence of this or that individual writer. But an effect can become a cause, reinforcing the original cause and producing the same effect in an intensified form, and so on indefinitely. A man may take to drink because he feels himself to be a failure, and then fail all the more completely because he drinks. It is rather the same thing that is happening to the English language. It becomes ugly and inaccurate because our thoughts are foolish, but the slovenliness of our language makes it easier for us to have foolish thoughts. The point is that the process is reversible. Modern English, especially written English, is full of bad habits which spread by imitation and which can be avoided if one is willing to take the necessary trouble. If one gets rid of these habits, one can think more clearly, and to think clearly is a necessary first step towards political

regeneration: so that the fight against bad English is not frivolous and is not the exclusive concern of professional writers.

Q62. Many people believe that nothing can be done about the English language because

- a. Bad habits spread by imitation
- b. We live in a decadent civilization
- c. There are too many bad writers
- d. People are too lazy to change their bad habits

Q63. The author believes that

- a. It's now too late to do anything about the problem
- b. Language is a natural growth and cannot be shaped for our own purpose
- c. The decline in the language can be stopped
- d. The process of an increasingly bad language cannot be stopped

Q64. The author believes that the first stage towards the political regeneration of the language would be –

- a. Taking the necessary trouble to avoid bad habits
- b. Avoiding being frivolous about it
- c. Clear thinking
- d. For professional writers to help

Q65. The author believes that –

- a. English is becoming ugly
- b. Bad language
- c. Our thoughts are becoming uglier because we are making the language uglier
- d. Our civilization is decadent so nothing can be done to stop the decline of the language

Q66. What causes bad language in the end?

- a. The bad influence of individual writer
- b. The limitation of bad language habit
- c. Political and economic causes
- d. An assumption that nothing can be done about

Q67. What is conclusion of the paragraph

- a. Positive thinking
- b. Negative thinking
- c. attractive
- d. useless

## Paragraph 4

A vexed problem facing us is the clamour to open more colleges and to reserve more seats for backward classes. But it will be a sheer folly to expand such facilities recklessly without giving any thought to the quality of education imparted. If admissions are made far more selective, it will automatically reduce the number of entrants. This should apply particularly to colleges, many of which are little more than degree factories. Only then can the authorities hope to bring down the teacher-student ratio to manageable proportion.

What is more, teachers should be given refresher courses, every summer to brush up their knowledge. Besides, if college managements increase their library budget it will help both the staff and the new students a great deal.

At the same time, however, it will be unfair to deny college education to thousands of young men and women, unless employers stop insisting on degrees even for clerical jobs. For a start, why can't the Government disqualify graduates from securing certain jobs, say class III and IV posts? Once the link between degrees and jobs is severed at least in some important departments, it will make young people think twice before joining college.

Q68. What can automatically help to reduce admission:

- a. Though entrance tests
- b. Discouragement to open new colleges
- c. Selective admissions
- d. Abolishing reservation

Q69. Many of the new college are

- a. Centres of advanced learning
- b. Research institutions
- c. Factories producing degree holders
- d. Knowns for their academic excellence

Q70. How can teachers are

- a. By arranging refresher courses
- b. By providing monetary help/incentive
- c. By providing better library facilities
- d. By sending them abroad

Q71. The author is in favor of restricting college admissions –

- a. Only when degrees are delinked form jobs
- b. When alternative avenues are open for the students
- c. When the teacher student ratio is reduced
- d. Only when parents think gtwise before sending their children

Q72. The phrase “Vexed problem” means

- a. A serious problem
- b. A debatable problem
- c. A difficult problem
- d. An irritating problem

## Paragraph 5

There are three main groups of oils-animal, vegetable and mineral. Great quantities of animal oil come from whales, creatures of the sea, which are the largest of the animals remaining in the world. To protect the whales from the cold of the Artic seas, nature has provided them with a thick covering of fat, called blubber. When the whale is killed, the blubber is stripped off and boiled down. It produces a great quantity of oil which can be made into food for human consumption. A few other creatures yield oil, but none so much as the whale. The livers of the cod and halibut, two kinds of fish, yield nourishing oil. Both cod liver oil and halibut oil are given to sick children and other invalids who need certain vitamins.

Vegetable oil has been known from very old times. No household can get on without it, for it is used in cooking. Perfumes may be made from the oils of certain flowers. Soaps are made from eatable and animal products and the oils of certain flowers.

Q74. The main source of animal oil, is

- a. fish
- b. whale
- c. seaweeds
- d. plants

Q75. Vegetable oil is mainly used for

- a. eating
- b. cooking
- c. frying
- d. lubricationg

Q76. The.....of fish yields nourishing oil.

- a. liver
- b. stomach
- c. eyes
- d. head

Q77. The thick protective covering of fat on a whale is called a

- a. skin
- b. cell
- c. blubber
- d. fins

Q78. .... are made from vegetable, animal products and the oils of certain flowers.

- a. perfumes
- b. cosmetics
- c. cooking medium
- d. soaps

Q79. There are \_\_\_\_\_ main groups of oils.

- a. 5
- b. 4
- c. 3
- d. 2

Q80. Great quantities of animal oils comes from

- a. whales
- b. fish
- c. blubber
- d. flowers

## **SECTION: 4**

### **Text Completion**

#### **Guidelines**

**This section has 20 questions, and each question has equal marks.  
Click on Next to proceed further.**

**Q81.** In a large group of people, Irina often seemed \_\_\_\_\_ and aloof, although among her friends and family she was quite \_\_\_\_\_.

- a. reticent...convivial
- b. gregarious...outgoing
- c. detrimental...multifarious
- d. unattainable.... taciturn

**Q82.** In his usual \_\_\_\_\_ manner, he had insured himself against this type of loss.

- a. Pensive
- b. Providential
- c. Indifferent
- d. circumspect

**Q83.** Their bantering talk seemed \_\_\_\_\_, but in fact it masked an underlying \_\_\_\_\_.

- a. hostile – antipathy
- b. amicable – antagonism
- c. jovial – assumptions
- d. exasperating – frustrations

**Q84.** She was roundly condemned for her \_\_\_\_\_, she betrayed the woman to whom she owed her success.

- a. Truculence
- b. Perfidy
- c. Serendipity
- d. Pragmatism

**Q85.** The quantum theory was initially regarded as absurd, unnatural and \_\_\_\_\_ with common sense.

- a. Consanguineous
- b. Discernible
- c. Incompatible
- d. Decipherable

**Q86.** The peasants were the least \_\_\_\_\_ of all people, bound by tradition and \_\_\_\_\_ by superstitions.

- a. enfranchised – rejected
- b. free – fettered
- c. enthralled – tied
- d. pinioned – limited

**Q87.** Corruption is \_\_\_\_\_ in our society; the integrity of even senior officials is \_\_\_\_\_.

- a. growing – unquestioned
- b. endangered – disputed
- c. pervasive – intact
- d. rife – suspect

**Q88.** The sales of Jules Verne's books continue to \_\_\_\_\_ like a runaway balloon.

- a. Revive
- b. Soar
- c. Flit
- d. advance

**Q89** Her ability to inspire others is her best \_\_\_\_\_.

- a. Attribute
- b. Feasible
- c. Coherence
- d. Acumen

**Q90** Yesterday the weather was not good; it was \_\_\_\_\_ pleasant.

- a. Fairly
- b. a little
- c. Rather
- d. to some extent

**Q91.** You \_\_\_\_\_ respect your parents and teachers.

- a. would
- b. should
- c. had
- d. have

**Q92.** If one know the fact one \_\_\_\_\_ not be so quiet to criticize.

- a. from
- b. with
- c. for
- d. would

**Q93.** I insisted \_\_\_\_\_ my fee paid?

- a. On having
- b. To having
- c. For having
- d. To have

**Q94.** We \_\_\_\_\_ friends since we were children?

- a. Have been
- b. are
- c. were
- d. had been

**Q95.** The child \_\_\_\_\_ crying for three hours.

- a. Has been
- b. have
- c. is
- d. were

**Q96.** Death is preferable \_\_\_\_\_ dishonor?

- a. of
- b. then
- c. to
- d. from

**Q97.** You must apply \_\_\_\_\_ the judge for pardon?

- a. to
- b. for
- c. over
- d. with

**Q98.** I am intent?

- a. To win
- b. For winning
- c. On winning
- d. To winning

**Q99.** If I \_\_\_\_\_ worked hard, I would have passed?

- a. Should have
- b. have
- c. would have
- d. had

**Q100.** A child should not be \_\_\_\_\_ as being either very shy or over \_\_\_\_\_ aggressive.

- a. categorized
- b. instructed
- c. intoned
- d. distracted





# Pak-Austria Fachhochschule: Institute of Applied Sciences & Technology Mang, Haripur, Khyber Pakhtunkhwa

<b>Test 1</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>English</li> <li>Biology</li> <li>Physics</li> <li>Chemistry</li> </ul>	<b>Test 2</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>English</li> <li>Maths</li> <li>Physics</li> <li>Chemistry</li> </ul>	<b>Test 3</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>English</li> <li>Computer</li> <li>Physics</li> <li>Maths</li> </ul>
<b>Test 4</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>English</li> <li>Computer Science</li> <li>Statistics</li> <li>Maths</li> </ul>	<b>Test 5</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>English</li> <li>Computer Science</li> <li>Economics</li> <li>Maths</li> </ul>	<b>Test 6</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>English</li> <li>Maths</li> <li>Physics</li> <li>Chemistry</li> </ul>
<b>Test 7</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>English</li> <li>Maths</li> <li>Physics</li> <li>Computer</li> </ul>	<b>Test 8</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>Test Completion</li> <li>Sentence Equivalence</li> <li>Reading Comprehension</li> <li>Analytical Section</li> </ul>	<b>Test 9</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 3 sections. <ul style="list-style-type: none"> <li>Drawing</li> <li>Aptitude</li> <li>Arithmetic</li> </ul>
<b>Test 10</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 2 sections. <ul style="list-style-type: none"> <li>Drawing</li> <li>Aptitude</li> </ul>	<b>Test 11</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 3 sections. <ul style="list-style-type: none"> <li>English</li> <li>Arithmetics</li> <li>Analytical</li> </ul>	<b>Test 12</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 3 sections. <ul style="list-style-type: none"> <li>English</li> <li>General Science</li> <li>Analytical</li> </ul>

## **Section 1**

### **Arithmetic**

#### **Guidelines**

**This section has 30 questions, and each question carry equal marks.  
Click on Next to proceed further.**

**Q1.** What is the average of first 150 natural numbers?

- a. 70
- b. 70.5
- c. 75
- d. 75.5

**Q2.**  $0.003 \times 0.02 = ?$

- a. 0.06
- b. 0.006
- c. 0.0006
- d. 0.00006

**Q3.** What is the average of the numbers: 0, 0, 4, 10, 5, and 5 ?

- a. 2
- b. 3
- c. 4
- d. 5

**Q4.** What is the rate of discount if a car which price was \$4,000 was sold for \$3,200 ?

- a. 14%
- b. 16%
- c. 18%
- d. 20%

**Q5.**  $|-4| + |4| - 4 + 4 = ?$

- a. 0
- b. 2
- c. 4
- d. 8

**Q6.** What is the value of x in the equation  $3x - 15 - 6 = 0$  ?

- a. 7
- b. 8
- c. 9
- d. -9

**Q7.** What comes next in the sequence: 1, 3, 11, 43, \_\_\_\_ ?

- a. 161
- b. 171
- c. 181
- d. 191

**Q8.** What is the distance traveled by a car which traveled at a speed of 80 km/hr for 3 hours and 30 minutes?

- a. 275 km
- b. 280 km

- c. 285 km
- d. 290 km

**Q9** In a class of 40 students 20% are girls. How many boys are there in the class?

- a. 26
- b. 28
- c. 30
- d. 32

**Q10.** How many feet there are in 5 meters? If 1 meter = 3.281 feet.

- a. 15.505
- b. 15.905
- c. 16.405
- d. 16.805

**Q11.** What will be the Common difference of sequence 5,8,11,14,...?

- a. 3
- b. 4
- c. 1
- d. 0

**Q12.** What is the missing number in 2,3,5,7,11,\_,17?

- a. 9
- b. 15
- c. 13
- d. None

**Q13.** If a car is sold for Rs..50000 the profit is 17 percent, what would be profit percentage if sold for Rs. 47000?

- a. 14.85%
- b. 9.98%
- c. 16.20%
- d. 14.50%

**Q14.** If the average marks of three batches of 55, 60 and 45 students respectively is 50, 55, 60, then the average marks of all the students is:

- a. 53.33
- b. 54.68
- c. 55
- d. None of these

**Q15.** The average of first 10 even numbers is\_\_\_\_\_?

- a. 18
- b. 22
- c. 9
- d. 11

**Q16.** The average of first ten prime numbers which are odd is\_\_\_\_\_?

- a. 12.9
- b. 13.8
- c. 15.8
- d. 17

**Q17.** The average of first 10 natural numbers is\_\_\_\_\_?

- a. 5
- b. 5.5
- c. 6.5
- d. 6

**Q18.** The average of first 10 odd numbers is\_\_\_\_\_?

- a. 11
- b. 10
- c. 12
- d. 17

**Q19.** A batsman in his 17th innings makes a score of 85 and thereby increasing his average by 3. What is his average after the 17th innings?

- a. 34
- b. 35
- c. 36
- d. 37

**Q20.** The average of 11 results is 50, if the average of first six results is 49 and that of the last six is 52. Find the sixth result?

- a. 46
- b. 56
- c. 34
- d. 57

**Q21.** Find the average of the first 20 natural numbers?

- a. 10
- b. 11.5
- c. 12
- d. 10.5

**Q22.** The average of 13 numbers is 60. Average of the first 7 of them is 57 and that of the last 7 is 61. Find the 8th number?

- a. 46
- b. 32
- c. 68
- d. 51

**Q23.** A batsman makes a score of 64 runs in the 16th innings and thus increased his average by 3. Find his average after the 16th inning?

- a. 17
- b. 29
- c. 18
- d. 19

**Q24.** The average marks of a class of 30 students is 40 and that of another class of 50 students is 60. Find the average marks of all the students?

- a. 50
- b. 47.5
- c. 59
- d. 52.5

**Q25.** The average of 35 numbers is 25. If each number is multiplied by 5, find the new average?

- a. 125
- b. 134
- c. 170
- d. 98

**Q26.** The average of 10 numbers is 23. If each number is increased by 4, what will the new average?

- a. 22
- b. 27
- c. 25
- d. 29

**Q27.** The average of the marks of 12 students in a class is 36. If the marks of each student are doubled, find the new average?

- a. 72
- b. 45

- c. 37
- d. 79

**Q28.** Find the average of the series : 312, 162, 132, 142 and 122?

- a. 194
- b. 174
- c. 162
- d. 186

**Q29.** The sum of five numbers is 655. The average of the first two numbers is 85 and the third number is 125. Find the average of the two numbers?

- a. 180
- b. 170
- c. 190
- d. 175

**Q30.** The average weight of a group of boys is 30 kg. After a boy of weight 35 kg joins the group, the average weight of the group goes up by 1 kg. Find the number of boys in the group originally?

- a. 4
- b. 5
- c. 6
- d. 7

## **Section 2**

### **Analytical**

#### **Guidelines**

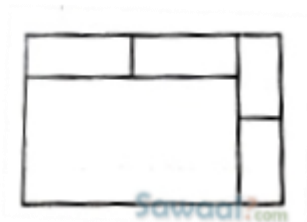
**This section has 30 questions, and each question carry equal marks.**

**Click on Next to proceed further.**

**Q31.** If both K and N are reduced, which one of the following is a pair of areas neither of which could be reduced?

- a. I,L
- b. J,L
- c. J,J
- d. J,I

**Q32.** What is the number of rectangles in the following figure?



- a. 6
- b. 7
- c. 9
- d. 11

**Q. 33** Find the number of triangles in the given figure.



- a. 8
- b. 10
- c. 11
- d. 12

**Q34.** What is Latus Rectum of Parabola?

- a. Line Segment
- b. Vertex
- c. Focus
- d. Major axis

**Q35.** Pankaj is taller than Vinod, who is shorter than Pramod. Usha is taller than Priyanka but shorter than Vinod. Pramod is shorter than Pankaj. Who is the tallest?

- a. Priyanka
- b. Pramod
- c. Vinod
- d. Pankaj

**Q36.** A can work twice as fast as B. A and C together can work three times as fast as B. If A, B and C complete a job in 30 days working together, in how many days can each of them complete the work.

- a. 50,100,120
- b. 60,120,120
- c. 60,100,80
- d. 40,80,100

**Q37.** What does this symbol mean '&'?

- a. Aret
- b. Bar
- c. Ampersand
- d. Reversed Caret

**Q38.**  $8(6+5) - 10 = ?$

- a. 76
- b. 78
- c. 80
- d. 82

**Q39.** What is the number of triangles that can be formed whose vertices are the vertices of an octagon but have only one side common with that of octagon?

- a. 64
- b. 32
- c. 24
- d. 16

**Q40.** What is the number of triangles that can be formed whose vertices are the vertices of an octagon but have only one side common with that of octagon?

- a. 64
- b. 32

- c. 24
- d. 16

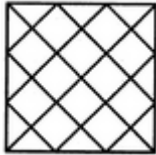
**Q41.** Vineet is taller than Raman but shorter than Jyoti. Sumit is the shortest. Deepak is taller than Sumit but shorter than Raman. Who is the tallest?

- a. Jyoti
- b. Raman
- c. Vineet
- d. Deepak

**Q42.** If white is called black, black is called red, red is called yellow, yellow is called green, green is called blue, blue is called violet and violet is called orange, what would be the colour of human blood?

- a. green
- b. black
- c. red
- d. yellow

**Q43.** Find the number of triangles in the given figure.



- a. 28
- b. 32
- c. 36
- d. 40

**Q44.** What is the number of triangles that can be formed whose vertices are the vertices of an octagon but have only one side common with that of octagon?

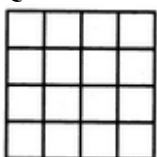
- a. 64
- b. 32
- c. 24
- d. 16

**Q45.** Find the number of triangles in the given figure.



- a. 27
- b. 25
- c. 23
- d. 21

**Q46.** Count the number of squares in the given figure.



- a. 32
- b. 30
- c. 29
- d. 28

**Q47.** A, P, R, X, S and Z are sitting in a row. S and Z are in the center. A and P are at the ends. R is sitting to the left of A. Who is to the right of P?

- a. A
- b. X
- c. S
- d. Z

**Q48.** A, B, C, D and E are sitting on a bench. A is sitting next to B, C is sitting next to D, D is not sitting with E who is on the left end of the bench. C is on the second position from the right. A is to the right of B and E. A and C are sitting together. In which position A is sitting?

- a. Between B and D
- b. Between B and C
- c. Between E and D
- d. Between C and E

**Q49.** There are 5 materials to make perfume: Lilac, Balsamic, Lemon, Woody and Mimosaic. To make a perfume that is in demand the following conditions are to be followed: Lilac and Balsamic go together. Woody and Mimosaic go together; Woody and Balsamic never go together. Lemon can be added with any material. All of the following combinations are possible to make a perfume EXCEPT:

- a. Balsamic and Lilac
- b. Woody and Lemon
- c. Mimosaic and Lilac
- d. Lemon and Lilac

**Q50.** If  $A < B$ ,  $B < A$  and  $C < B$  Then, which from the following is true?

- a.  $C < A$
- b.  $A = C$
- c.  $B = C$
- d.  $A < C$

**(Q51-55)** 7 persons live in a street, having houses in line. Consider the following: 1. A lives in the corner's house 2. C is between E and G 3. There is 1 house between D and F 4. F is neighbor of G 5. There are two houses between A and G

**Q51.** Who lives in the second corner?

- a. B
- b. C
- c. D
- d. E

**Q52.** Who lives in the middle?

- a. C
- b. D
- c. E
- d. F

**Q53.** Who lives between B and G?



- a. C
- b. D
- c. E
- d. F

**Q54.** \_\_\_\_\_ is neighbor of A?

- a. B
- b. C
- c. E
- d. F

**Q55.** There are \_\_\_\_\_ houses between B and E?

- a. 0
- b. 1
- c. 2
- d. 3

**(Q56-60)** Michael attends Saddle Rock School on the 9:00-3:00 session, except on Thursdays when he is dismissed at noon so the teachers can conduct special help classes and parent conferences. Michael takes a piano lesson at home on Mondays from 3:30-4:30. On Tuesdays he goes to a karate class from 4:00-6:00. His art class meets from 4:00-6:00 on Wednesdays. He remains in school after dismissal on Fridays to participate in a ninety minute club program

**Q56.** The most convenient afternoon for Michael to do library research is

- a. Tuesday
- b. Wednesday
- c. Thursday
- d. Friday

**Q57.** Keeping the same 3:30-4:30 schedule, Michael can conveniently change his piano lesson to which of the following days?

- a. Tuesday
- b. Wednesday
- c. Thursday
- d. Friday

**Q58.** Michael was invited to join an advanced art class instead of his regular art class. He could accept this advancement without interfering with his other activities, if the class met on which of the following days?

- a. Mondays and Wednesdays
- b. Tuesdays and Wednesdays
- c. Wednesdays and Thursdays
- d. Thursdays and Fridays

**Q59.** . Michael is chosen to play for the varsity basketball team. To attend daily 5:00 practice session, he will have to suspend which of the following activities?

- a. piano instruction and karate
- b. karate and the club program
- c. the art class and the club program
- d. piano instruction and the art class

**Q60.** Michael attends Saddle Rock School on the \_\_\_\_\_ session

- a. 9:00-1:00

- b. 9:00-2:00
- c. 9:00-3:00
- d. 9:00-4:00

## **SECTION: 3**

### **English**

#### **Guidelines**

**This section has 40 questions, and each question has equal marks.  
Click on Next to proceed further.**

**Q61.** If I have money, I \_\_\_\_\_ it tomorrow.

- a. will purchase
- b. would purchase
- c. have purchase
- d. have purchased

**Q62.** Cannon had \_\_\_\_\_ unique qualities \_\_\_\_\_ it was used widely in ancient times

- a. such, that
- b. such, so
- c. that, since
- d. that, that

**Q63.** While UK has earned record revenue this year, \_\_\_\_\_ well behind in exports.

- a. it still lag
- b. it still lags
- c. it lag still
- d. it lags still

**Q64.** She succeeded by \_\_\_\_\_ hard.

- a. Work
- b. Working
- c. continuous work
- d. continuous working

**Q65.** I enjoy \_\_\_\_\_ tennis.

- a. to play
- b. plays
- c. Playing
- d. to playing

**Q66.** Most of the guests arrived \_\_\_\_\_ buses.

- 1. With
- 2. By
- 3. From
- 4. In

**Q67.** On leaving the shopping plaza, Kate was robbed \_\_\_\_\_ purse.

- a. by her

- b. by hers
- c. of her
- d. of hers

**Q68.** Most of the guests arrived \_\_\_\_\_ buses.

- a. with
- b. by
- c. from
- d. in

**Q69.** You can go neither by train \_\_\_\_\_ by bus.

- a. No
- b. Nor
- c. Or
- d. And

**Q70.** When she was younger, she \_\_\_\_\_ five kilometres a day.

- a. Walked
- b. had walked
- c. has been walking
- d. had been walking

**Q71.** The shopkeeper sells sweets made \_\_\_\_\_ pure milk.

- a. Of
- b. by
- c. with
- d. from

**Q72.** This chair is made \_\_\_\_\_ wood.

- a. With
- b. Of
- c. From
- d. By

**Q73.** Choose the antonym of Birth?

- a. Death
- b. End
- c. Conclusion
- d. All of the above

**Q74.** What is the antonym of Anguish?

- a. Death
- b. End
- c. Conclusion
- d. All of the above

**Q75.** What is the antonym of Anguish?

- a. Delight
- b. Polite
- c. Hatred
- d. All of the above

**Q76.** Choose synonym of Fear?

- a. Horror
- b. Laughter
- c. Smile
- d. Judgement

**Q77.** Choose the synonym of Grief ?

- a. Happiness
- b. Sorrow
- c. Love
- d. None of these

**Q78.** The Government should care \_\_\_\_\_ the victims of the recent floods.

- a. For
- b. To
- c. After
- d. Of

**Q79.** I can't even think \_\_\_\_\_ travelling \_\_\_\_\_ public bus.

- a. of, by
- b. off, to
- c. by, in
- d. of, to

**Q80.** I am glad \_\_\_\_\_ your success.

- a. to
- b. for
- c. of
- d. None of these

**Q81.** Choose the correct meaning of the idiom: 'A Dark Horse'.

- a. A wicked fellow
- b. An Unexpected winner
- c. A criminal Getting the water dirty
- d. None of these

**Q82.** We suffered \_\_\_\_\_ your neglect.

- a. From
- b. To
- c. Of
- d. None of These

**Q83.** The river flows \_\_\_\_\_ the bridge.

- a. Under
- b. Along
- c. On
- d. None of above

**Q84.** Choose the correct spelling from the following?

- a. Etiquite
- b. Etiquette
- c. Etikuit
- d. None of These

**Q85.** She is working \_\_\_\_\_ midnight.

- A. Since
- B. For
- C. In
- D. On

**Q86.** Antonym of mendacious is \_\_\_\_\_?

- A. veracious
- B. release
- C. dishonest
- D. vigor

**Q87.** Antonym of felicitous is \_\_\_\_\_?

- A. inopportune
- B. devout
- C. lavish

D. miser

**Q88.** Synonym of supervene is \_\_\_\_\_?

A. follow

B. intervene

C. urgent

D. imply

**Q89.** Synonym of antediluvian is \_\_\_\_\_?

A. antiquated

B. boorish

C. petty

D. strike

**Q90.** The Alphabets others than (a e i o u) are called \_\_\_\_\_?

A. Vowels

B. Consonants

C. Phrase

D. None of these

**Q91.** synonym of "Zest" is \_\_\_\_\_?

A. disappointed

B. discourage

C. enthusiasm

D. hope

**Q92.** \_\_\_\_\_ makes the mare go.

A. Gold

B. Silver

C. Money

D. Copper

**Q93.** The Romans \_\_\_\_\_ to Britain in 54 BC.

A. Comed

B. Came

C. Had come

D. None of these

**Q94.** One who praise oneself is called \_\_\_\_\_?

A. Fascist

B. Nazist

C. Narcissist

D. None of These

**Q95.** Synonym of Gaol is \_\_\_\_\_?

A. Purpose

B. Quod

C. Objective

D. None of These

**Q96.** Synonym of Decade is \_\_\_\_\_?

A. Erra.

B. Period of 10 years.

C. Period

D. Years

**Q97.** I eat mangoes.

A. Mangoes are ate by me.

B. Mangoes is eaten by me.

C. Mangoes are eaten by me.

D. Mangoes has eaten by me.

**Q98.** He left you in the \_\_\_\_\_ when you needed him most.

A. dirt

- B. alley
- C. lurch
- D. field

**Q99.** “Chevon” is the meat of \_\_\_\_\_?

- A. Goat
- B. Sheep
- C. Pigeon
- D. Water buffalo

**Q100.** The meat of calf is called\_\_\_\_\_?

- A. Veal
- B. Squab
- C. Venison
- D. Chevon

# Pak-Austria Fachhochschule: Institute of Applied Sciences & Technology Mang, Haripur, Khyber Pakhtunkhwa

<b>Test 1</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>English</li> <li>Biology</li> <li>Physics</li> <li>Chemistry</li> </ul>	<b>Test 2</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>English</li> <li>Maths</li> <li>Physics</li> <li>Chemistry</li> </ul>	<b>Test 3</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>English</li> <li>Maths</li> <li>Physics</li> <li>Computer Science</li> </ul>
<b>Test 4</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>English</li> <li>Math</li> <li>Statistics</li> <li>Computer Science</li> </ul>	<b>Test 5</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>English</li> <li>Maths</li> <li>Economics</li> <li>Computer Science</li> </ul>	<b>Test 6</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>English</li> <li>Maths</li> <li>Physics</li> <li>Chemistry</li> </ul>
<b>Test 7</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>English</li> <li>Maths</li> <li>Physics</li> <li>Computer</li> </ul>	<b>Test 8</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 4 sections. <ul style="list-style-type: none"> <li>Test Completion</li> <li>Sentence Equivalence</li> <li>Reading Comprehension</li> <li>Analytical Section</li> </ul>	<b>Test 9</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 3 sections. <ul style="list-style-type: none"> <li>Drawing</li> <li>Aptitude</li> <li>Arithmetic</li> </ul>
<b>Test 10</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 2 sections. <ul style="list-style-type: none"> <li>Drawing</li> <li>Aptitude</li> </ul>	<b>Test 11</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 3 sections. <ul style="list-style-type: none"> <li>English</li> <li>Arithmetics</li> <li>Analytical</li> </ul>	<b>Test 12</b> 1. Test duration is 2 hours. 2. Paper consists of 100 MCQs. 3. Paper consists of 3 sections. <ul style="list-style-type: none"> <li>English</li> <li>General Science</li> <li>Analytical</li> </ul>

## **Section 1**

### **English**

#### **Guidelines**

**This section has 40 questions, and each question carry equal marks.**

**Click on Next to proceed further.**

**Q1.** If I have money, I \_\_\_\_\_ it tomorrow.

- a. will purchase
- b. would purchase
- c. have purchase
- d. have purchased

**Q2.** Cannon had \_\_\_\_\_ unique qualities \_\_\_\_\_ it was used widely in ancient times

- a. such, that
- b. such, so
- c. that, since
- d. that, that

**Q3.** While UK has earned record revenue this year, \_\_\_\_\_ well behind in exports.

- a. it still lag
- b. it still lags
- c. it lag still
- d. it lags still

**Q4.** She succeeded by \_\_\_\_\_ hard.

- a. Work
- b. Working
- c. continuous work
- d. continuous working

**Q5.** I enjoy \_\_\_\_\_ tennis.

- a. to play
- b. plays
- c. Playing
- d. to playing

**Q6.** Most of the guests arrived \_\_\_\_\_ buses.

- a. With
- b. By
- c. From
- d. In

**Q7.** On leaving the shopping plaza, Kate was robbed \_\_\_\_\_ purse.

- a. by her
- b. by hers
- c. of her
- d. of hers

**Q8.** Most of the guests arrived \_\_\_\_\_ buses.

- a. with
- b. by
- c. from
- d. in



**Q9.** You can go neither by train \_\_\_\_\_ by bus.

- a. No
- b. Nor
- c. Or
- d. And

**Q10.** When she was younger, she \_\_\_\_\_ five kilometres a day.

- a. Walked
- b. had walked
- c. has been walking
- d. had been walking

**Q11.** She \_\_\_\_\_ for the upcoming tennis tournament.

- a. Trains
- b. Is training
- c. Will training
- d. Is going to train

**Q12.** I \_\_\_\_\_ New Zealand next year.

- a. go
- b. will go
- c. going
- d. will go to

**Q13.** There are some vacant rooms \_\_\_\_\_ in flats and shared houses.

- a. both
- b. between
- c. either
- d. neither

**Q14.** The sun rises \_\_\_\_\_ the east.

- a. in
- b. On
- c. from
- d. towards

**Q15.** Nitrogen gas is in abundance \_\_\_\_\_ the Earth.

- a. in
- b. On
- c. Above
- d. along

**Q16.** For good health, she \_\_\_\_\_ bed earlier.

- a. Should go
- b. Should go to
- c. Should goes
- d. Should goes to

**Q17.** If you have time, you \_\_\_\_\_ the nature museum.

- a. should visit
- b. should visited
- c. have to visit
- d. have to visited

**Q18.** It is our problem, not \_\_\_\_\_.

- a. their
- b. their's
- c. there
- d. there's

**Q19.** The number of guests at the party \_\_\_\_\_ amazing.

- a. was
- b. were
- c. had
- d. had have

**Q20.** \_\_\_\_\_ 600 and 800 B.C, Olympics were held in Athens, Greece.

- a. during
- b. unless
- c. until
- d. between

**Q21.** She \_\_\_\_\_ the driving test to get a license.

- a. Should pass
- b. Should have passed
- c. Have pass
- d. Have to passed

**Q22.** As there were no buses, she \_\_\_\_\_ home last night.

- a. has
- b. has to walked
- c. had to walk
- d. had to walked

**Q23.** \_\_\_\_\_ these books belong to?

- a. Who do
- b. Whom do
- c. Whose does
- d. Whom does

**Q24.** If John \_\_\_\_\_ earlier, he would always be on time.

- a. Get up
- b. Got up
- c. Had get up
- d. Had got up

**Q25.** jolie \_\_\_\_\_ a book yesterday.

- a. Had read
- b. readed
- c. red
- d. read

**Q26.** It was raining yesterday, so we \_\_\_\_\_ out.

- a. Did not go
- b. Did not went
- c. Would not go
- d. Would not went

**Q27.** I \_\_\_\_\_ what was happening.

- a. couldn't understood
- b. couldn't understand
- c. was not able to understood
- d. was not able to understand

**Q28.** f you work hard, you \_\_\_\_\_ good marks.

- a. Would get
- b. Would got
- c. Will get
- d. Will got

**Q29.** If you \_\_\_\_\_ hard, you would not have failed in the exams.

- a. Have work
- b. Have worked
- c. Had worked
- d. Had work

**Q30.** If the camera was working, we \_\_\_\_\_ a movie.

- a. Could make
- b. Could made
- c. Would make
- d. Would made

**Q31.** Kindly ask him to play the piano, he is a \_\_\_\_\_ pianist.

- a. Fragile
- b. Virtuoso
- c. Voracious
- d. Vulnerable

**Q32.** Please be careful, the luggage contains \_\_\_\_\_ items.

- a. Fragile
- b. Virtuoso
- c. Voracious
- d. Vulnerable

**Q33** Due to gas leakage, all people especially children are

- a. fragile
- b. Virtuoso
- c. Vulnerable
- d. Voracious

**Q34** He is a \_\_\_\_\_ person, he eats all the time.

- a. Skilled
- b. Voracious
- c. Slanderous
- d. Biased

**Q35** Hyena is a \_\_\_\_\_ animal.

- a. Enigma
- b. Embargo
- c. Vicious
- d. Voracious

**Q36.** Job in this department \_\_\_\_\_ a lot of hard work.

- a. Bears
- b. Exigence
- c. Entails
- d. Curtails

**Q37** We are running out of time, we need to \_\_\_\_\_ the discussion.

- a. Bear
- b. Exigent
- c. Entail
- d. Curtail

**Q38** He was \_\_\_\_\_ to give this confessional statement.

- a. Absurd
- b. Coerced
- c. Onslaught
- d. Imprisoned

**Q39** The front-line soldiers survived the \_\_\_\_\_ by the enemy.

- a. Nepotism
- b. Bland
- c. Onslaught
- d. Panacea

**Q40** He was \_\_\_\_\_ from all charges leveled against him.

- a. Apprehended
- b. Judged
- c. Enigmatic
- d. Exonerated

## **SECTION: 2**

### **General Science**

#### **Guidelines**

**This section has 30 questions, and each question has equal marks.**

**Click on Next to proceed further.**

**Q41.** The axis of rotation of the Earth is tilted by approximately \_\_\_\_\_ degree.

- a. 24.55
- b. 20.44
- c. 24.44
- d. 25.44

**Q42.** Which continent of the world is the driest and the windiest?

- a. Africa
- b. Asia
- c. Antarctica
- d. Australia

**Q43** What play the most important role in regulating temperature and determining climate on the Earth?

- a. forest
- b. ocean
- c. mountain
- d. desert

**Q44** In plants, the process of pollination enables

- a. Photosynthesis
- b. Gymnosperm
- c. Fertilization
- d. None of these

**Q45** Hyena is a \_\_\_\_\_ animal.

- a. Enigma
- b. Embargo
- c. Vicious
- d. Voracious

**Q46.** Which of the following enzyme catalyses the hydrolysis of starch into sugars?

- a. Sucrose
- b. Catalase
- c. Maltase
- d. Amylase

**Q47** Which of the following is a tissue?

- a. Blood
- b. Lungs
- c. Tissues
- d. Ovary

**Q48** The most abundant element in the Earth's crust is

- a. Oxygen
- b. Hydrogen
- c. Carbon Dioxide
- d. Silicon

**Q49** Each day human body breathe in \_\_\_\_\_ liters of air.

- a. 5000-10000
- b. 10000-15000
- c. 15000-20000
- d. 20000-25000

**Q50** The study of flower is known as

- a. Analogy
- b. Phrenology
- c. Agrostology
- d. Palynology

**Q51.** The lifespan of Red Blood Cells is \_\_\_\_\_ days.

- a. 60
- b. 120
- c. 180
- d. 240

**Q52.** The density of water is

- a.  $1 \text{ g/cm}^3$
- b.  $1.5 \text{ g/cm}^3$
- c.  $2 \text{ g/cm}^3$
- d. None of these

**Q53.** Radioactivity was discovered by

- a. Lord Kelvin
- b. J. J. Thomson
- c. Ernest Rutherford
- d. Henri Becquerel

**Q54.** The Sun's mass is mainly consist of hydrogen (about 73%). The second main constituent (about 25%) is

- a. hYdrogen
- b. helium
- c. Carbon Dioxide
- d. nitrogen

**Q55.** Deficiency of Vitamin-D results in

- a. night blindness
- b. rickets
- c. scurvy
- d. hair fall

**Q56.** The SI unit of "pressure" is

- a. pascal
- b. joule
- c. tesla
- d. henry

**Q57.** The most densest substance on the earth is

- a. platinum
- b. copper
- c. steel
- d. Osmium

**Q58.** A camera uses a \_\_\_\_\_ to form an image.

- a. Convex lens
- b. Concave lens
- c. Condenser lens
- d. None of these

**Q59.** Which from the following is NOT a conductor?

- a. Aluminium
- b. Silicon
- c. Graphite
- d. All are conductors

**Q60.** CNG stands for

- a. Converted Natural Gas
- b. Conducted Natural Gas
- c. Compressed Natural Gas
- d. None of these

**Q61.** Which from the following is true for “Sound”?

- a. Sound cannot travel through a vacuum
- b. Sound cannot travel through gases
- c. Sound cannot travel through liquids
- d. sound cannot travel through solids

**Q62.** When white light is passed through a prism, it splits into \_\_\_\_\_

- a. 5
- b. 6
- c. 7
- d. 8

**Q63.** 1 nanometer = ?

- a.  $10^{-3}$  meter
- b.  $10^{-6}$  meter
- c.  $10^{-9}$  meter
- d.  $10^{-12}$  meter

**Q64.** Instrument used for measuring very high temperature is

- a. Pyroscope
- b. Pyrometer
- c. Seismograph
- d. Xylometer

**Q65.** Sound waves are \_\_\_\_\_ waves.

- a. Transverse
- b. Electromagnetic
- c. Longitudinal
- d. None of these

**Q66.** The lifespan of White Blood Cells is \_\_\_\_\_ day(s).

- a. 1
- b. 2
- c. 3
- d. 4

**Q67.** The fluid part of blood is known asOption A

- a. Plasma
- b. Platelets
- c. blood cells
- d. hormones

**Q68.** X-rays were discovered by

- a. Rontgen
- b. Thomson

- c. Rutherford
- d. Becquerel

**Q69.** The speed of light is

- a. 280,000 km/s
- b. 300,000 km/s
- c. 320,000 km/s
- d. None of these

**Q70.** The nearest planet to the Earth is

- a. Venus
- b. Mercury
- c. Mars
- d. Moon

## **SECTION: 3**

### **Analytical**

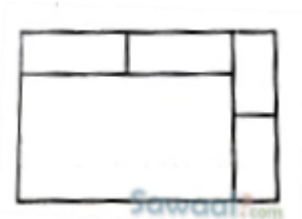
#### **Guidelines**

**This section has 30 questions, and each question carry equal marks.  
Click on Next to proceed further.**

**Q71.** If both K and N are reduced, which one of the following is a pair of areas neither of which could be reduced?

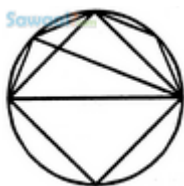
- a. I,L
- b. J,L
- c. J,J
- d. J,I

**Q72.** What is the number of rectangles in the following figure?



- a. 6
- b. 7
- c. 9
- d. 11

**Q. 73** Find the number of triangles in the given figure.



- a. 8
- b. 10

c. 11

d. 12

**Q74.** What is Latus Rectum of Parabola?

a. Line Segment

b. Vertex

c. Focus

d. Major axis

**Q75.** Pankaj is taller than Vinod, who is shorter than Pramod. Usha is taller than Priyanka but shorter than Vinod. Pramod is shorter than Pankaj. Who is the tallest?

a. Priyanka

b. Pramod

c. Vinod

d. Pankaj

**Q76.** A can work twice as fast as B. A and C together can work three times as fast as B. If A, B and C complete a job in 30 days working together, in how many days can each of them complete the work.

a. 50,100,120

b. 60,120,120

c. 60,100,80

d. 40,80,100

**Q77.** What does this symbol mean '&'?

a. Aret

b. Bar

c. Ampersand

d. Reversed Caret

**Q78.**  $8(6+5) - 10 = ?$

a. 76

b. 78

c. 80

d. 82

**Q79.** What is the number of triangles that can be formed whose vertices are the vertices of an octagon but have only one side common with that of octagon?

a. 64

b. 32

c. 24

d. 16

**Q80.** What is the number of triangles that can be formed whose vertices are the vertices of an octagon but have only one side common with that of octagon?

a. 64

b. 32

c. 24

d. 16

**Q81.** Vineet is taller than Raman but shorter than Jyoti. Sumit is the shortest. Deepak is taller than Sumit but shorter than Raman. Who is the tallest?

a. Jyoti

b. Raman

c. Vineet

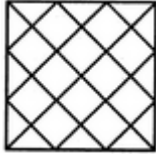
d. Deepak



**Q82.** If white is called black, black is called red, red is called yellow, yellow is called green, green is called blue, blue is called violet and violet is called orange, what would be the colour of human blood?

- a. green
- b. black
- c. red
- d. yellow

**Q83.** Find the number of triangles in the given figure.



- a. 28
- b. 32
- c. 36
- d. 40

**Q84.** What is the number of triangles that can be formed whose vertices are the vertices of an octagon but have only one side common with that of octagon?

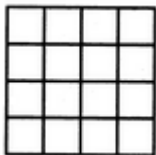
- a. 64
- b. 32
- c. 24
- d. 16

**Q85.** Find the number of triangles in the given figure.



- a. 27
- b. 25
- c. 23
- d. 21

**Q86.** Count the number of squares in the given figure.



- a. 32
- b. 30
- c. 29
- d. 28

**Q87.** A, P, R, X, S and Z are sitting in a row. S and Z are in the center. A and P are at the ends. R is sitting to the left of A. Who is to the right of P?

- a. A
- b. X
- c. S
- d. Z

**Q88.** A, B, C, D and E are sitting on a bench. A is sitting next to B, C is sitting next to D, D is not sitting with E who is on the left end of the bench. C is on the second position from the right. A is to the right of B and E. A and C are sitting together. In which position A is sitting?

- a. Between B and D
- b. Between B and C
- c. Between E and D
- d. Between C and E

**Q89.** There are 5 materials to make perfume: Lilac, Balsamic, Lemon, Woody and Mimosaic. To make a perfume that is in demand the following conditions are to be followed: Lilac and Balsamic go together. Woody and Mimosaic go together; Woody and Balsamic never go together. Lemon can be added with any material. All of the following combinations are possible to make a perfume EXCEPT:

- a. Balsamic and Lilac
- b. Woody and Lemon
- c. Mimosaic and Lilac
- d. Lemon and Lilac

**Q90.** If  $A < B$ ,  $B < A$  and  $C < B$  Then, which from the following is true?

- a.  $C < A$
- b.  $A = C$
- c.  $B = C$
- d.  $A < C$

**(Q91-95)** 7 persons live in a street, having houses in line. Consider the following: 1. A lives in the corner's house 2. C is between E and G 3. There is 1 house between D and F 4. F is neighbor of G 5. There are two houses between A and G

**Q91.** Who lives in the second corner?

- a. B
- b. C
- c. D
- d. E

**Q92.** Who lives in the middle?

- a. C
- b. D
- c. E
- d. F

**Q93.** Who lives between B and G?

- a. C
- b. D
- c. E
- d. F

**Q94.** \_\_\_\_\_ is neighbor of A?

- a. B
- b. C
- c. E
- d. F

**Q95.** There are \_\_\_\_\_ houses between B and E?

- a. 0
- b. 1
- c. 2
- d. 3

**(Q96-100)** Michael attends Saddle Rock School on the 9:00-3:00 session, except on Thursdays when he is dismissed at noon so the teachers can conduct special help classes and parent conferences. Michael takes a piano lesson at home on Mondays from 3:30-4:30. On Tuesdays he goes to a karate class from 4:00-6:00. His art class meets from 4:00-6:00 on Wednesdays. He remains in school after dismissal on Fridays to participate in a ninety minute club program

**Q96.** The most convenient afternoon for Michael to do library research is

- a. Tuesday
- b. Wednesday
- c. Thursday
- d. Friday

**Q97.** Keeping the same 3:30-4:30 schedule, Michael can conveniently change his piano lesson to which of the following days?

- a. Tuesday
- b. Wednesday
- c. Thursday
- d. Friday

**Q98.** Michael was invited to join an advanced art class instead of his regular art class. He could accept this advancement without interfering with his other activities, if the class met on which of the following days?

- a. Mondays and Wednesdays
- b. Tuesdays and Wednesdays
- c. Wednesdays and Thursdays
- d. Thursdays and Fridays

**Q99.** . Michael is chosen to play for the varsity basketball team. To attend daily 5:00 practice session, he will have to suspend which of the following activities?

- a. piano instruction and karate
- b. karate and the club program
- c. the art class and the club program
- d. piano instruction and the art class

**Q100.** Michael attends Saddle Rock School on the \_\_\_\_\_ session

- a. 9:00-1:00
- b. 9:00-2:00
- c. 9:00-3:00
- d. 9:00-4:00

