

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

Test 1	Test 2	Test 3
 Test duration is 2 hours. Test consists of 100 MCQs. Test consists of 3 sections. English: 20% Biology: 40% Chemistry: 40% 	 Test duration is 2 hours. Test consists of 100 MCQs. Test consists of 3 sections. English: 20% Math: 40% Physics: 40% 	 Test duration is 2 hours. Test consists of 100 MCQs. Test consists of 3 sections. English: 20% General Math: 40% Computer: 40%
Test 4	Test 5	Test 6
 Test duration is 2 hours. Test consists of 100 MCQs. Test consists of 3 sections. Drawing: 50% Aptitudes: 50% 	 Test duration is 2 hours. Test consists of 100 MCQs. Test consists of 5 sections. English: 10% General Math: 20% Analytical: 20% Drawing: 25% Aptitudes: 25% 	 Test duration is 2 hours. Test consists of 100 MCQs. Test consists of 3 sections. English: 20% Arithmetic: 40% Analytical: 40%

SECTION 1

ENGLISH

 $\frac{Guidelines}{This\ section\ has\ 20\ questions,\ and\ each\ question\ has\ equal\ marks.}$ Click on Next to proceed further.

$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
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
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
SECTION: 2 BIOLOGY
Guidelines This section has 40 questions, and each question has equal marks. Click on Next to proceed further.
Q21. Plants having foreign DNA incorporated into their cells are called
(A) Transduced plants
(B) Transgenic plants
(C) Transformed plants
(D) Xerophyte plants
Q22. Heat vaporization is expressed as calories pervaporized.
(A)Litre
(B) Kilogram
(C)Gram
(D) Kilometre
Q23. 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
Q24. RNA is synthesized by DNA in a process known as:
(A) Replication
(B) Transcription
(C) Reverse Transcription
(D) Conjugation
Q25 Thylakoids are found in:
(A)Chloroplasts
(B) Golgi complex
(C) Mitochondria
(D) Nucleus
Q26.The virus is:
(A) Facultative parasite
(B) Obligate intracellular parasite
(C)Saprophyte
(D) Ectoparasite
Q27. Heterocysts are helpful in the fixation of atmospheric nitrogen in:
(A) Bacteriophages
(B) Cyanobacteria
(C) Fungi
(D) Land plants
Q28. 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
Q29 Turn Over DO NOT WRITE ANYTHING HERE ix. Sexual phase has not been observed in:
(A) Zygomycota
(B) Basidiomycota
(C) Ascomycota
(D) Deuteromycota
Q30. Gametophyte is the dominant plant body in:
(A) Marchantia
(B) Rosa indica
(C) Adiantum
(D) Pinus
Q31. Which one of the following is not an eutherian mammal?
(A) Whale
(B) Opossum
(C) Elephant
(D) Horse
Q32. Hepatic and pancreatic secretion are also stimulated by a hormone called:
(A) Insulin
(B)Oxytocin
(C) Secretin
(D) Testosterone
Q33.Tiny thin walled ducts called parabronchi are present in the lungs of:
(A) Cows

(B) Birds
(C) Man
(D) Frog
Q34. Which one group of the following organisms has not double circuit heart?
(A) Reptiles
(B) Birds
(C) Fishes
(D) Mammals
Q35. Antiserum is a serum containing:
(A) Antibiotics
(B) Antibodies
(C) Antigens
(D) Anticontia
(D) Antiseptic
Q36. What type of pressure moves the sucrose and other substances in the sieve tube cells and then moves to sink?
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Q36. 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
Q36. 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
Q36. 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 Q37. Guttation is the loss of liquid water through:
Q36. 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 Q37. Guttation is the loss of liquid water through: (A)Phloem
Q36. 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 Q37. Guttation is the loss of liquid water through: (A)Phloem (B) Cambium
Q36. 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 Q37. Guttation is the loss of liquid water through: (A)Phloem (B) Cambium (C) Hydathodes

(B) Medulla
(C) Cerebrum
(D) Spinal cord
Q39. Animals which excrete ammonia as the major nitrogenous waste product are called:
(A) Ureotelic
(B) Uricotelics
(C) Ammoniotelic
(D) Urethritis
Q40. Syphilis is caused by:
(A) Proteus vulgaris
(B) E. Coli
(C) Klebsiella pneumoniea
(D) Treponema palladium
Q41 is the immobility and fusion of vertebral joints.
Q41 is the immobility and fusion of vertebral joints. (A) Sciatica
(A) Sciatica
(A) Sciatica (B) Arthritis
(A) Sciatica(B) Arthritis(C) Spondylitis
(A) Sciatica(B) Arthritis(C) Spondylitis(D) Osteoarthritis
(A) Sciatica (B) Arthritis (C) Spondylitis (D) Osteoarthritis Q42. A patient with Myxodema would have elevated level of:
 (A) Sciatica (B) Arthritis (C) Spondylitis (D) Osteoarthritis Q42. A patient with Myxodema would have elevated level of: (A) TSH
(A) Sciatica (B) Arthritis (C) Spondylitis (D) Osteoarthritis Q42. A patient with Myxodema would have elevated level of: (A) TSH (B) ACTH
(A) Sciatica (B) Arthritis (C) Spondylitis (D) Osteoarthritis Q42. A patient with Myxodema would have elevated level of: (A) TSH (B) ACTH (C) T4
(A) Sciatica (B) Arthritis (C) Spondylitis (D) Osteoarthritis Q42. A patient with Myxodema would have elevated level of: (A) TSH (B) ACTH (C) T4 (D) Calcitonin

(C) Osmoreceptors
(D) Photoreceptors
Q44. 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
Q45.Duchenne patients lack a protein responsible for Duchenne muscular dystrophy.
(A) Action
(B) Myosin
(C) Myoglobin
(D) Dystrophin
Q46. Synthesis of a new DNA stand usually begins with a/an:
(A) RNA primer
(B) DNA ligase
(C) DNA primer
(D) Okazaki fragment
Q47. The process by which genetic information flows from genes to proteins is:
(A) Translation
(B) Transcription
(C) Mutation
(D) Gene expression
Q48. Which of these may be heterozygous?
(A) A Haploid cell
(B) An egg
(C) An organism with a dominant phenotype

Q49. 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
Q50.The process by which species are replaced over time is:
(A) Ecological succession
(B) Climax
(C) Population
(D) Trophic level
Q51. 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
Q52. 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
Q53. In the equation, NH4 -> NO3 -> NO2 -> N2, the group of bacteria that have a role in the conversion is:
(A) Nitrosomonas & Clostridium
(B) Azobector & Clostridium

(D) An organism with the recessive genotype

(C) Nitrosomonas & Nitrobector
(D) Psuedomonas & Clostridium
Q54. 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
Q55. 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
Q56. The method of directly injecting a sperm into ovum in assisted reproductive technology is called
(a) GIFT
(D) 7IET
(B) ZIFT
(C) ICSI
(C) ICSI
(C) ICSI
(C) ICSI (D) ET
(C) ICSI (D) ET Q57. Increased IMR and decreased MMR in a population will
(C) ICSI (D) ET Q57. Increased IMR and decreased MMR in a population will (A) cause rapid increase in growth rate
(C) ICSI (D) ET Q57. Increased IMR and decreased MMR in a population will (A) cause rapid increase in growth rate (b) result in decline in growth rate

(a) suppression of gonadotropins
(b) hypersecretion of gonadotropins .
(c) suppression of gametic transport
(d) suppression of fertilization.
Q59. 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
Q60. 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.
SECTION: 3
<u>CHEMISTRY</u>
Guidelines
This section has 40 questions, and each question has equal marks.
Click on Next to proceed further.
Q61. Bakelite is a polymer of phenol and
(A) Methanol
(B) Methanal
(C) Alcohol
(D) None of these

Q62. 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
Q63. The general formula of alkyl halides is:
(A) CnH2n+2X
(B) CnH2n+1X
(C) CnH2n+X2
(D) None of these
Q64. Kipp's apparatus is used for the preparation of this gas,
(A) H2S
(B) O2
(C) Cl2
(D) SO3
Q65. In KMnO4, oxidation number of Mn is:
(A). +7
(B) +6
(C) +5
(D) +4
Q66. The chlorination of methane (CH4) is an example of:
(A) Addition reaction
(B) Substitution reaction
(C) Elimination reaction

(D) Oxidation reaction

(A) OH
(B) COOH
(C) RCOR
(D) RCHO
Q68. Wurtz reaction will be applicable in the :
(A) CH2 CH2
(B) CHBr
(C) CH3Br
(D) None of them
Q69. In general alkali metals act as
(A) Reducing agents
(B) Oxidizing agents
(C) Both a & b
(D) None of these
Q70. When alkyl halide is heated with alcoholic KOH is formed.
(A) Alkene
(B) Alkyl Halides
(C) Alkane
(D) Alkyne
Q71. The chemical formula Al2O3 stands for:
(A) Diaspore
(B) Corundum
(C) Bauxite
(D) Gibbisite

Q72. Water gas is produced by passing steam over red hot coke at:

Q67. The general formula of aldehyde is:

(A) 800C°
(B) 900C°
(C) 600C°
(D) 1000C°
Q73. Aldehyde is formed by oxidation of:
(A) Primary Alcohol
(B) Secondary Alcohol
(C)Tertiary Alcohol
(D) Ether
Q75. Tollen"s reagent is:
(A) Ammonical cuperous oxide
(B) Ammonical silver nitrate
(C) Ammonical silver oxide
(D) Ammonical silver bromide
Q76. Non metals acts as:
(A) Rreducing agent
(B) Bleaching agent
(C) Oxidizing agent
(D) Nitrating Agent
Q77. Tetra ethyl lead is used for reduce the of the engine.
(A) Knocking
(B) etching
(C) hydrogenation
(D) Sublimation
Q78. Making of design on glass surface is known as
(A) Knocking

(B) Etching
(C) Hydrogenation
(D) Sublimation
Q79. It is a nucleophile:
(A) OH-1
(B) CN-1
(C) SH-1
(D) All of these
Q80. Ethanol can be prepared by the of glucose:
(A) Hydration
(B) Hydrogenation
(C) Oxidation
(D) Fermentation
Q82. The hybridization in the carbon atom of methane is:
2020 The hybridization in the curbon atom of incential is:
(A) sp^3
(A) sp^3
(A) sp3 $(B) sp2$
(A) sp ³ (B) sp ² (C) sp
(A) sp ³ (B) sp ² (C) sp (D) sp ³
 (A) sp³ (B) sp² (C) sp (D) sp³ Q83. This will give Iodoform reaction on the treatment with Na2CO3 and I2:
(A) sp ³ (B) sp ² (C) sp (D) sp ³ Q83. This will give Iodoform reaction on the treatment with Na2CO3 and I2: (A) Aceticacid
(A) sp ³ (B) sp ² (C) sp (D) sp ³ Q83. This will give Iodoform reaction on the treatment with Na2CO3 and I2: (A) Aceticacid (B) Acetone
(A) sp ³ (B) sp ² (C) sp (D) sp ³ Q83. This will give Iodoform reaction on the treatment with Na2CO3 and I2: (A) Aceticacid (B) Acetone (C) Acetic Anhydride
(A) sp ³ (B) sp ² (C) sp (D) sp ³ Q83. This will give Iodoform reaction on the treatment with Na2CO3 and I2: (A) Aceticacid (B) Acetone (C) Acetic Anhydride (D) Methanol

(B) CH2=CH2
(C) CH≡CH
(D) CH3-CH=CH-CH3
Q85. Saturated Hydrocarbon containing a single bond are called
(A) Parafins
(B) Alkynes
(C) Proteins
(D) Olefines
Q86. Electronic configuration of Zn:
(A) 4S1, 3d10
(B) 4S0, 3d9
(C) 4S0, 3d10
(D) 4S2, 3d10
Q87. The mixture of "Al" and Fe2O3is used in:
Q87. The mixture of "Al" and Fe2O3is used in: (A) Pyrolysis
(A) Pyrolysis
(A) Pyrolysis (B) Thermite process
(A) Pyrolysis(B) Thermite process(C) Electrolysis
(A) Pyrolysis(B) Thermite process(C) Electrolysis(D) Washing
(A) Pyrolysis (B) Thermite process (C) Electrolysis (D) Washing Q88. The soul of chemistry is dealing with?
(A) Pyrolysis (B) Thermite process (C) Electrolysis (D) Washing Q88. The soul of chemistry is dealing with? A. Internal structural changes in matter
(A) Pyrolysis (B) Thermite process (C) Electrolysis (D) Washing Q88. The soul of chemistry is dealing with? A. Internal structural changes in matter B. Composition of matter
(A) Pyrolysis (B) Thermite process (C) Electrolysis (D) Washing Q88. The soul of chemistry is dealing with? A. Internal structural changes in matter B. Composition of matter C. Properties of matter
(A) Pyrolysis (B) Thermite process (C) Electrolysis (D) Washing Q88. The soul of chemistry is dealing with? A. Internal structural changes in matter B. Composition of matter C. Properties of matter D. Composition and properties of matter

C. protium
D. ortho-hydrogen
Q90. Electron was discovered by?
A. Michael Faraday
B. James Maxwell
C. Yuri Gagarin
D. J.J Thomson
Q91. Sodium carbonate is produced by?
A. haber process
B. Amonia solvay process
C. decons process
D. lead chamber process
Q92. Which of the following is a substance?
A. Sea water
B. Brass
C. Tape water
D. Graphite
E. Sand
Q93. Some substances are good conductor of electricity in both the solid and liquid states. These substances are generally?
A. ionic substances
B. metallic substances
C. molecular solids
D. covalent network solids
Q94. All of the following substances are crystalline except?
A. Ice

B. Diamond
C. Sucrose
D. Plastic
Q95. Covalent network crystals have?
A. higher melting point then molecular crystals
B. lower melting point then molecular crystals
C. discrete molecules linked by Van der waals forces
D. hydrogen bonding
Q96. What is a mixture of Potassium Nitrate Powdered Charcoal and Sulphur called?
A. Paint
B. Glass
C. Gun Powder
D. Cement
Q97. Diameter of an atom is in the order of?
A. 0.2m
B. 0.2mm
C. 0.2nm
D. 0.2pm
Q98. Mass spectrometer is used to determine Mass number of isotopes and?
A. Atomic number
B. Relative abundance
C. Electronic configuration
D. All of the above
Q99. The number of peaks obtained in mass spectrometry shows?
A. Relative abundance
B. Average mass of element
B. Average mass of element C. Number of isotopes

Q100. Molecular mass of water (18g) means_______

- A. 1-mole molecules of water
- B. 1-gram molecule of water
- C. 3-gram atoms
- D. all