



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

Test 1	Test 2	Test 3
<ol style="list-style-type: none">1. Test duration is 2 hours.2. Test consists of 100 MCQs.3. Test consists of 3 sections.<ul style="list-style-type: none">• English: 20%• Biology: 40%• Chemistry: 40%	<ol style="list-style-type: none">1. Test duration is 2 hours.2. Test consists of 100 MCQs.3. Test consists of 3 sections.<ul style="list-style-type: none">• English: 20%• Math: 40%• Physics: 40%	<ol style="list-style-type: none">1. Test duration is 2 hours.2. Test consists of 100 MCQs.3. Test consists of 3 sections.<ul style="list-style-type: none">• English: 20%• General Math: 40%• Computer: 40%
Test 4	Test 5	Test 6
<ol style="list-style-type: none">1. Test duration is 2 hours.2. Test consists of 100 MCQs.3. Test consists of 3 sections.<ul style="list-style-type: none">• Drawing: 50%• Aptitudes: 50%	<ol style="list-style-type: none">1. Test duration is 2 hours.2. Test consists of 100 MCQs.3. Test consists of 5 sections.<ul style="list-style-type: none">• English: 10%• General Math: 20%• Analytical: 20%• Drawing: 25%• Aptitudes: 25%	<ol style="list-style-type: none">1. Test duration is 2 hours.2. Test consists of 100 MCQs.3. Test consists of 3 sections.<ul style="list-style-type: none">• English: 20%• Arithmetic: 40%• Analytical: 40%

SECTION 1

ENGLISH

Guidelines

This section has 20 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

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

General Math

Guidelines

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

Click on Next to proceed further.

21. A number exceeds another number by 6.the sum of the numbers is 18. find the smaller number?

- a. 6
- b. 8
- c. 10
- d. 12

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

- a. 6
- b. 9
- c. 12
- d. 15

23. Find two number whose sum is 30 and the difference is 6 _____?

- a. 12, 16
- b. 12, 18
- c. 16, 12
- d. 14, 16

24. How much 60% of 50 is greater than 40% of 30?

- a. 14
- b. 16
- c. 18
- d. 20

25.After decreasing 24% in the price of an article costs Rs.912. Find the actual cost of an article?

- a. 1500
- b. 1400

- c. 1300
- d. 1200

26.If 6 men can make 10 sofas in 2 days, then 8 men can make 8 sofas in_____?

- a. 1 day
- b. 1.2 days
- c. 1.5 days
- d. 1.8 days

27.A rectangular carpet has an area of 120 square meters and a parameter of 46m. The length of it's diagonals is_____?

- a. 17m
- b. 15m
- c. 13m
- d. 11m

28.The Ratio of the length and breadth of a plot is 3:2 .If the breadth is 40m less than the what is the parameter of the plot?

- a. 320m
- b. 400m
- c. 440m
- d. 480m

29.The circumferences of two concentric circles are 176 m and 132 cm respectively. What is the difference between their radii?

- a. 7m
- b. 8m
- c. 12m
- d. 20m

30.If the diameter of a circle is increased by 100 % its area is increased by:_____?

- a. 100%
- b. 200%
- c. 300%
- d. 400%

31.If the diagonal of a square is doubled. How does the area of the square change?

- a. Become twofold
- b. Become threefold
- c. Become fourfold
- d. No Change

32.If the ratio of the areas of two squares is 9:1 ratio of their perimeters is_____?

- a. 1:9
- b. 1:3
- c. 9:1
- d. 3:1

33.15 cattle can graze a field in 20 days 20 cattle can graze 3 such field in how many days?

- a. 30
- b. 45
- c. 60
- d. 75

34.If 12 members family spend Rs. 850 in 10 days. Then a family of 8 people will spend Rs. 340 in how many days.

- a. 6
- b. 7
- c. 8

d. 9

35. A train 240 m long passes a pole in 24 seconds. How long will it take to pass a platform 650 m long?

- a. 78sec
- b. 80sec
- c. 89sec
- d. 92sec

36. Rayan crosses a 400m bridge in 3 minutes. What is speed?

- a. 4 kmph
- b. 8 kmph
- c. 12 kmph
- d. 15 kmph

37. 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. 15 kg
- b. 21 kg
- c. 27 kg
- d. 31 kg

38. $0.004 \times 0.02 = ?$

- a. 0.008
- b. 0.0008
- c. 0.00008
- d. 0.000008

39. What is the average of the numbers: 0, 0, 4, 10, 4, and 6?

- a. 4
- b. 8
- c. 12
- d. 16

40. $|-3| + |3| - 3 + 3 = ?$

- a. 3
- b. 6
- c. 9
- d. 12

41. What is the value of y in the equation $3y - 13 - 8 = 0$?

- a. 7
- b. 8
- c. -7
- d. 9

42. What comes next in the sequence: 1, 3, 11, 43, _____ ?

- a. 151
- b. 161
- c. 171
- d. 181

43. What is the distance traveled by a car which traveled at a speed of 80 km/hr for 3 hours and 30 minutes?

- a. 270 km
- b. 280 km
- c. 300 km
- d. 360 km

44. In a class of 60 students 20% are boys. How many girls are there in the class?

- a. 56
- b. 48
- c. 38
- d. 32

45. $6 + 6 - 6 \times 6 \div 6 = ?$

- a. 0
- b. -6
- c. 6
- d. 12

47. For $x = -2$, the value of the function $f(x) = x^3 + 4x + 12$ is

- a. -2
- b. 2
- c. 4
- d. -4

48. The radius of a wire is decreased to one-third if volume remains the same length will increase

- a. 9 times
- b. 6 times
- c. 3 times
- d. No change

49. In a 100 m race, A can beat B by 25 m and B can beat C by 4 m. In the same race, A can beat C by: _____?

- a. 24
- b. 26
- c. 28
- d. 30

50. You deposit Rs.600 into a 6 month certificate of deposit. After 6 months the balance is Rs.618. Find the simple annual interest rate

- a. 5%
- b. 6%
- c. 7%

d. 8%

51. Find the least square number which is divisible by 10, 12, 15 and 18?

a. 900

b. 1200

c. 1500

d. 2100

52. If the number of elements in a set S are 5. Then the number of elements of the power set $P(S)$ are ?

a. 16

b. 32

c. 36

d. 12

53. If the set $G = \{1, w, w^2\}$ is an abelian group w.r.t multiplication, then inverse of w is ?

a. 1

b. w

c. w^2

d. *None of above*

54. If A and B are matrices, then which from the following is true ?

a. $(A^t)^t \neq A$

b. $AB \neq BA$

c. $A + B \neq B + A$

d. All are true

55. If

$$A = \begin{bmatrix} 2i & i \\ i & -i \end{bmatrix} \text{ then } |A| = ?$$

a. 2

b. 3

c. 4

d. 5

56. If $2^x = 32$, then $x = ?$

a. 2

b. 3

c. 4

d. 5

57. What is the value of the logarithm

$$\log_{10} \frac{1}{100}$$

a. 2

b. -2

c. 5

d. -5

58. What is the value of x in the equation

$$\log_x \frac{1}{81} = 4$$

a. $\frac{1}{2}$

b. $\frac{1}{3}$

c. 3

d. $\frac{1}{9}$

59. If $x^2 + 1 = 0$, then $x = ?$

a. $\pm i$

b. ± 1

c. -1

d. 1

60. Find the roots of quadratic equation: $x^2 + x - 42 = 0$?

a. -6, 7

b. -7, 6

c. -6, 9

d. 7, 9

SECTION: 3

COMPUTER

Guidelines

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

Click on Next to proceed further.

Q61. The term 'Computer' is derived from _____?

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

Q62. Who is the father of Computer?

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

Q63. The basic operations performed by a computer are _____?

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

Q64. Who is the father of Internet ?

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

Q65. If a computer has more than one processor, then it is known as _____?

- (A) Uni-process

- (B) Multiprocessor
- (C) Multi-threaded
- (D) Multi-programming

Q66. WAN stands for _____?

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

Q67 _____ is called the father of modern digital computer?

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

Q68 Who is the father of Computer science?

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

Q69 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

Q70. 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

Q71. The first computers were programmed using _____?

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

(D) Object code

Q72. 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

Q73. You can organize files by storing them in_____?

(A) archives

(B) folders

(C) indexes

(D) lists

Q74. 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

Q75. Which device is required for the Internet connection?

(A) Joystick

(B) Modem

(C) CD Drive

(D) NIC Card

Q76. What is a light pen?

(A) A Mechanical Input device

(B) Optical input device

(C) Electronic input device

(D) Optical output device

Q77. UNIVAC is_____?

(A) Universal Automatic Computer

(B) Universal Array Computer

(C) Unique Automatic Computer

(D) Unvalued Automatic Computer

Q78. 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

Q79. MICR stands for_____?

(A) Magnetic ink character recognition

(B) Magnetic Ink Code Reader

(C) Magnetic Ink Cases Reader

(D) None of these

Q80. 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

Q81. Which of the following is a part of the Central Processing Unit?

(A) Printer

(B) Key board

(C) Mouse

(D) Arithmetic & Logic unit

Q82. CAD stands for_____?

(A) Computer aided design

(B) Computer algorithm for design

(C) Computer application in design

(D) Computer analogue design

Q83. Junk e-mail is also called_____?

(A) spam

(B) spoof

(C) sniffer script

(D) spool

Q84. 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

Q85. Example of non-numeric data is _____?

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

Q86. 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

Q87. 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

Q88. _____ represents raw facts, where-as _____ is data made meaningful?

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

Q89. Which programming languages are classified as low level languages?

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

Q90. Which of the following is not anti- viruses software?

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

Q91. What does DMA stand for?

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

Q92. Which of the following is a storage device?

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

Q93. Which of the following is first generation of computer?

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

Q94. IBM 1401 is _____?

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

Q95. Second Generation computers were developed during _____?

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

Q96. Which of the following devices can be used to directly image printed text?

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

Q97. 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

Q98. 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

Q99. In latest generation computers, the instructions are executed_____?

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

Q100. 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