



Sample ENTRY TEST FOR BSCS/BS Data Science

Time: 60 Mins.

Total Marks: 50

Name:

Signature:

Roll No.

Do not write anything on the question paper except your Roll No. and Signature

(Analytical)

1. If 6 men can complete a work in 15 hours. Then 10 men, working on the same speed, will complete the same work in _____ hours.
A) 7 B) 8 C) 9 D) 10
2. A car left Faisalabad at 4:30 P.M and reached Hyderabad at 11:00 A.M. How much time did it take _____.
A) 18.30 hours B) 16 hours C) 17.30 hours D) 10 hours
3. A train travels at speed of 120 K.M.H, how much will it travel in 22 minutes _____.
A) 60 km B) 72 km C) 90 km D) 44 km
4. If A is three years younger than B. B is seven years elder than C. What is the difference of age between C and A _____.
A) 6 B) 4 C) 5 D) 2
5. The population of a town increases by 5% annually and its present population is 9261. The population three years ago was:
A) 8020 B) 8000 C) 9800 D) 10000
What number comes next in the following series?
6. 10, 18, 15, 23, 20, 28, _____.
A) 25 B) 23 C) 24 D) 35
7. 20, 19, 17, _____, 10, 5
A) 12 B) 13 C) 14 D) 15
8. 2, 90, 4, 80, 6, 70, 8, 60, _____.
A) 12, 52 B) 10, 50 C) 50, 10 D) 12, 50

For question 9 to 12

The principal of a school is forming a committee. There are to be five members: three teachers, chosen from Mr. A, Ms. B, Ms. C, Mr. D, and Mr. E; and two students, chosen from L, M, N, and O. The composition of the committee must conform to the following conditions: Ms. A will serve only if O is also on the committee. Ms. C will not serve unless Ms. B and L also serve. Neither Mr. D nor Mr. E will serve without the other. If M serves, neither N nor O can serve.

9. Which of the following is an acceptable committee?
 A) A, C, D, E, L B) B, C, E, L, M C) B, D, E, L, O D) C, D, E, L, M
10. How many different committees could include Mr. A and N?
 A) 1 B) 2 C) 3 D) 4
11. If N and O are both on the committee, who else must be on the committee?
 A) A B) B C) C D) D
12. If M is not on the committee, each of the following must be on the committee EXCEPT
 A) J B) L C) O D) Q

(COMPUTER)

13. A keyboard is this kind of device:
 A) black B) input C) output D) word Processing
14. IT stands for:
 A) Information Technology B) Integrated Technology C) Intelligent Technology D) Interesting Technology
15. Which of the following refers to the fastest, biggest and most expensive computers?
 A) Personal Computers B) Supercomputers C) Laptops D) Notebooks
16. Which of the following is not an operating system :
 A) OS/2 B) Unix C) Windows D) Power point software
17. A computer combines best features of digital and analog computers called.
 A) Digital computer B) Analog computer C) Hybrid computer D) All of them
18. Binary number 1010 is equivalent in decimal form.
 A) 7 B) 10 C) 9 D) 13
19. A collection of related information sorted and dealt with as a unit is a:
 A) disk B) data C) file D) floppy
20. Which part of the computer helps to store information?
 A) Disk drive B) Keyboard C) Monitor D) Printer

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(MATHEMATICS)

21. If 15% of x is same as 20% of y, then x:y is:
 A) 17: 16 B) 16:17 C) 4:3 D) 3:4
22. If the vertices of a triangle are at (0,0), (-3, 4) and (3, 4), what is the area of the triangle
 A) 4 B) 6 C) 12 D) 14
23. If $n + 3 = n \times 3$, then n =
 A) 0.5 B) 1.5 C) 2 D) 2.5
24. The prime factors of 96 are:
 A) 2 and 3 B) 6 and 8 C) 2, 3 and 4 D) 8 and 12
25. The two numbers, whose sum is -13 and product -30, are
 A) 2, 15 B) 2, -15 C) -3, 10 D) 3, 10

26. Which of the following numbers gives 240 when added to its own square
A) 15 B) 16 C) 18 D) 20
27. If the degree of a polynomial function is 1, then it is called a _____ function.
A) Non Linear B) Even C) Odd D) Linear
28. The number of degrees through which the hour hand of a clock moves in 2 hours and 12 minutes is
A) 66 B) 72 C) 732 D) 723
29. The additive inverse of 2 is Page 3 of 6
A) $1/2$ B) -2 C) 0 D) 1
30. If the base of a rectangle is increased by 30% and the altitude is decreased by 20% the area is increased by
A) 25% B) 10% C) 5% D) 4%
31. If the sum of the edges of a cube is 48 inches, the volume of the cube is
A) 512 inches B) 96 cubic inches C) 64 cubic inches D) 698 cubic inches
32. If n is prim, then \sqrt{n} is
A) Irrational number B) Rational number C) Natural number D) Whole number
33. The multiplicative identity of real numbers is
A) 0 B) 2 C) 3 D) 1
34. $d/dx [\cos h(3x)]$ is _____
A) $\sinh 3x$ B) $3 \sinh 3x$ C) $3 \sinh 2x$ D) $2 \sinh 3x$
35. 0 is
A) An natural number B) An even interger C) An odd integer D) An irrational number

(ENGLISH)

Each question below consists of a related pair of words or phrases, followed by four lettered pairs of words or phrases. Select the lettered pair that best expresses a relationship similar to that expressed in the original

36. STUDYING: LEARNING::
A) running : jumping B) investigating : discovering C) reading : writing D) dancing : swimming
37. AFTERNOON : DUSK ::
A) breakfast : dinner B) yesterday : tomorrow C) Sunday : Saturday D) night : dawn
38. VIBRATION: SOUND ::
A) gravity : pull B) watercolor : paint C) accident : death D) worm : reptile
39. RUN : RACE ::
A) walk : pogo stick B) swim : boat C) fly : kite D) sink : bottle
40. CONCERT : MUSIC ::
A. performance : artist B) exhibition : art C. play : actor D) operetta : singer

Read the passage and answer the questions given at its end

A popular theory explaining the evolution of the universe is known as the Big Bang Model.

According to the model at some time between twenty billion years ago, all present matter and energy were compressed into a small ball only a few kilometers in diameter. It was, in effect, an atom that contained in the form of pure energy all of the components of the entire universe. Then, at a moment in time that astronomers refer to as $T = 0$, the ball exploded, hurling the energy into space. Expansion occurred. As the energy cooled most of it became matter in the form of protons, neutrons and electrons. These original particles combined to form hydrogen and helium and continued to expand. Matter formed into galaxies with stars and planets.

41. Which sentence best summarizes this passage?
- A) The big bang theory does not account for the evolution of the universe
B) According to the Big Bang Model, an explosion caused the formation of the universe
C) The universe is made of hydrogen and helium D) The universe is more than ten billion years old
42. According to this passage when were the galaxies formed?
- A) Ten Billion Years ago B) Fifteen billion Years ago C) At $T = 0$ D) Twenty billion years ago
43. The word “compressed” in the passage could best be replaced by
- A) Excited B) Balanced C) Reduced D) Controlled
44. It may be inferred that
- A) Energy and matter are the same B) Protons, neutrons, and electrons are not matter
C) Energy may be converted into matter D) The galaxies stopped expanding as energy cooled

Sentence completion with suitable words

45. He gives _____ beggar one Rupee.
- A) The B) a C) Some D) Any
46. _____ you give me money , I ‘ll shoot you.
- A) Until B) Unless C) When D) Before
47. It _____ since morning.
- A) Rain B) Rains C) Has been raining D) Was raining

SYNONYMS

48. EAGER
- A) Enthusiastic B) Devoted C) Clever D) Curious
49. WRATH
- A) Anger B) Jealousy C) Violence D) Hatred
50. BARBARIAN
- A) Unkind B) Impolite C) Uncivilized D) Arrogant