

Bachelor in Computer Applications (BCA)

Entrance Exam

Model Set- 4

Full Marks:100

Time:2hr

Group A[English]

Circle the correct answer from among the given options.

(Multiple Choice Questions)

1. An apple of discord
a) cause of wealth
b) cause of illness
c) cause of happiness
d) cause of quarrel
2. Cut both hands
a) very big loss
b) very hard worker
c) in favor of both sides
d) against both sides
3. Roots and branch
a) entirely
b) step by step
c) part by part
d) bare truth
4. A seminar is generally form of.....interaction.
a) academic
b) social
c) formal
d) artificial
5. An archaeologist studies about the.....of human.
a) rock
b) history
c) past
d) future
6. Back of beyond.
a) an ideal place for holidays
b) place with certain memories
c) a religious place
d) a lonely forsaken place
7. Eat humble pie.
a) to forgive
b) to apologize

- c) to request
d) to order
8. The synonym of "SUMMIT" is:
a) base
b) slope
c) declivity
d) peak
9. Which one is appropriate synonym of "FACULTY"?
a) privilege
b) desire
c) branch
d) ability
10. Give an exact synonym of "RECTIFY".
a) to command
b) to correct
c) to destroy
d) to build
11. The antonym of "CONFESS" is:
a) deny
b) refuse
c) contest
d) contend
12. Give the antonym of "FICKLE".
a) steadfast
b) independent
c) unwise
d) esoteric
13. What is the antonym of "BASE"?
a) roof b) height c) top d) climax
14. The meaning of "palette" is:
a) artist's brush keeping box
b) artist's paint mixing board
c) artist's frame box
d) artist's planning board
15. The word "Saturated" gives the meaning as:
a) drenched b) soaked c) full of d) all
16. Knowledge is like a deep well fed by.....springs, and your mind is the little bucket that you drop in it.
a) perennial,
b) eternal
c) sterling
d) immortal

17. It was through to the second world war that Russia.....herself increased.....in power, wealth and prestige.
- a) saw, abundantly b) notice, gullibly
c) witnessed, prodigiously d) none of these
18. Those who seek.....from others must learn to forgive and forget.
- a) leniency b) clemency
c) courtesy d) retribution
19. His.....of the topic was so good that students had few doubts to raise at the end.
- a) exposure b) clarity
c) exposition d) picturization
20. The accused was released on pending hearing of his case.
- a) bale b) deposit c) bail d) bond
21. He was killed.....a highway man.....a dagger.
- a) by; with b) with; for
c) by; for d) in; for
22. Pakistan is not enamored.....the bomb for its own sake.
- a) of b) for c) with d) by
23. He dispensed with the services.....his honest clerk.
- a) for b) by c) of d) to
24. The teacher has no control.....the students.
- a) with b) at c) over d) on
25. There is no hinderance.....his going there.
- a) to b) on c) over d) at
26. I have a bistate.....publicity.
- a) about b) at c) against d) for
27. My cousin has invested a lot of money.....farming.
- a) in b) for c) onto d) on

28. Plants absorb moisture.....the air.
 a) for b) in c) from d) to
29. It is vain to calculate.....an uncertain result.
 a) upon b) over c) into d) for
30. Jagdish had no servant to attend.....him.
 a) upon b) over c) with d) to
31. The word 'quest' is meant for:
 a) to seek b) to look for
 c) to search d) all of the above
32. Go to the dogs.
 a) to be ruined b) to be in danger
 c) to take risk d) to disobey elders
33. Keen is meant to:
 a) very clean b) very warm
 c) very dull d) very sensitive
34. Well disposed to
 a) useless b) help to somebody
 c) very much excited d) to be settle for less
35. Pay lip service.
 a) false appreciation b) pretend to regard
 c) true relation d) false commitment
36. Get on
 a) to step down b) to step up
 c) to help d) to think
37. passage
38. passage
39. Passage
40. Passage

Group-B[Mathematics]

41. The slope of a vertical line is:

- a) 0
- b) more than 0
- c) not defined
- d) none of these

42. If $P(A \cap B) = 0$, two events are:

- a) mutually exclusive
- b) equally like events
- c) exhaustive events
- d) dependent events

43. Which of the following is the true statement?

- a) $0 \in \{\}$
- b) $0 \in \{0\}$
- c) $0 \in \{1\}$
- d) $0 \subset \{0\}$

44. Each prime number has:

- a) no factor
- b) only one factor
- c) only two factors
- d) more than two factors

45. If the function $f(x) = 2x^2 - 5x + 2$, then the value of $\frac{f(4+h) - f(4)}{h}$ is:

- a) $11 - 2h$
- b) $11 + 2h$
- c) $2h - 11$
- d) none of these

46. If the sum of three terms of an A.P is 51 and product of last and first term is 273, the numbers are:

- a) 21, 15, 13
- b) 21, 17, 13
- c) 19, 17, 13
- d) 19, 15, 13

47. The value of $\operatorname{cosec} 60^\circ$ is:

- a) $\frac{1}{2}$
- b) $\frac{2}{\sqrt{3}}$
- c) $\sqrt{3}$
- d) 1

48. If $A = (a_{ij})_{m \times n}$ and $B = (a_{ij})_{m \times n}$ be any two matrices and $A+B$ is defined, the order of $(A+B)$ is:

- a) $m \times n$
- b) $n \times m$
- c) $m \times m$
- d) $n \times n$

49. The area of the four wall, ceiling and floor of a room is 56m^2 . if the room is 3m long and 2m wide, the height of room is:
- a) 4.9m b) 5m
c) 4.7m d) 4.4m
50. One half of a number is 17 more than one-third of that number. What is the number?
- a) 52 b) 84
c) 102 d) 112
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52. Two numbers are respectively 20% and 50% more than the third number. What % is the first number of the second?
- a) 40% b) 50% c) 80% d) 70%
53. Hari spent Rs.25, which is 15% of his monthly wage. His monthly wage is:
- a) Rs.80 b) Rs. $166\frac{2}{3}$
c) Rs.225 d) Rs.312.5
54. If 15% of a number is 4.5, then, 45% of the same number is:
- a) 1.5 b) 3.5 c) 13.5 d) 15
55. Which one is perpendicular to line $2x+3y=4$?
- a) $2x-3y=5$ b) $2x-3y+7=0$
c) $3x+2y=8$ d) $3x-2y+7=0$
56. The interest on a sum of money of 6% for 2.5 years is Rs.270, the amount is
- a) 4000 b) 2070 c) 4100 d) 4150
57. A man gains the selling price of 5 books by selling 25 books. the percentage gain is
- a) 20% b) 25% c) 25.5% d) 15%
58. I lost 7% by selling an article for Rs. 139.50. At what price must I have sold it to have 10% gain?
- a) 15.0 b) 16.5 c) 17.5 d) 20.0

68. The interval satisfying $3 \leq x-1 \leq 5$ is:
 a) [3,5] b) [4,6] c) [2,3] d) (2,3)
69. The constant function is a:
 a) one to one b) onto
 c) into d) objective
70. The value of $(2+\sqrt{3})(2-\sqrt{3})(3+\sqrt{5})(3-\sqrt{5})$ is:
 a) rational number b) irrational number
 c) An imaginary number d) All of above
71. If $x+y=4c/5$, $y+z=7c/5$ and $z+x=9c/5$, the value of $x+y+z$ is:
 a) $7c/15$ b) c c) $2c$ d) $3c$
72. Divide of Rs.750 into three parts in the ratio 4:5:6 are:
 a) 200,250,300 b) 250,250,250
 c) 350,250,150 d) 400,500,600
73. The ratio 5:4 expressed as percent equals to:
 a) 125% b) 80% c) 40% d) 60%
74. If $1+\frac{1}{x}=2-\frac{2}{x}$, the value of x is
 a) 0 b) 1 c) 2 d) 3
75. The area of rectangular courtyard is 63m^2 and perimeter is 32m. the length and breadth (in m) are:
 a) 4,3 b) 9,7 c) 29,17 d) 19,13
76. If $\frac{1}{x+4}+\frac{1}{x+1}=\frac{1}{x}$, then x could be
 a) ± 1 b) ± 2 c) -2 d) -4
77. Three sides of the triangle are in the ratio 1:2:3, it is:
 a) a right-angled triangle
 b) an isosceles triangle
 c) an equilateral triangle
 d) none of these
78. If x is an integer and $y=-2x-8$, what is the least value of x for which y is less than 9?
 a) -9 b) -8 c) -7 d) -6

79. The sum of the series 24,3,8,1,2,7 up to 8th term is:
 a) 57 b) $36\frac{13}{50}$ c) $36\frac{1}{9}$ d) $37\frac{5}{9}$
80. If $t_n=2n^2+3n$, the value of S_4 is:
 a) 90 b) 85 c) 80 d) none
81. If the nth term of the series 3,10,17..... and 63,65,67..... are equal, the value of n is:
 a) 8 b) 10 c) 12 d) 13
82. If the cost price of 18 pens and selling price of 20 pens are equal. The loss percentage is:
 a) 10.5% b) 10% c) 11.11% d) 13%
83. A person incurs a loss of 10% by selling a toy for Rs.10.80. At what price he should sell it to earn a profit of 20%?
 a) 12 b) 12.96 c) 14.4 d) none
84. A machine was bought for Rs.7540 and sold at a profit of 20%, the selling price was
 a) 9048 b) 9049 c) 9050 d) 9051
85. A 30% discount reduces the price of a commodity by Rs.90. If the discount is reduced to 20% then the price of the commodity will be:
 a) Rs.180 b) Rs.210
 c) Rs.240 d) Rs.300
86. If $A = \begin{matrix} 2 & 3 \\ -5 & -2 \end{matrix}$, the value of $A - I$ is :
 a) A b) $\frac{1}{3}A$ c) $\frac{1}{19}A$ d) 19
87. The value of $\begin{bmatrix} a-6 & 2a \\ -2b & a-6 \end{bmatrix}$ equals to
 a) $a+6$ b) $a-6$ c) $(a+6)^2$ d) $b+a+1$
88. The simple interest on Rs.400 for 1 year at 5% p.a is:
 a) 20 b) 25 c) 16 d) none
89. The sum of money at the rate of 5% p.a will yield an interest of Rs.120 in 3 years is:
 a) 800 b) 900 c) 1000 d) 1100

90. If $a:b=2:3$, $b:c=5:7$, the value of $a:b:c$ is
- a) 2:3:7
 - b) 2:5:7
 - c) 10:15:21
 - d) 2:15:7

Group-C [General Knowledge]

91. The famous Bulbul lake is situated in:
- a) Gorkha
 - b) Chitwan
 - c) Tanahun
 - d) Surkhet
92. The oldest country in the world is:
- a) Vatican City
 - b) Libya
 - c) San marino
 - d) Denmark
93. The first daily newspaper of the world is
- a) The Morning Post
 - b) Sunday Times
 - c) The New York Times
 - d) Daily mail
94. In computer abbreviation of CAD usually means?
- a) Computer Additional Disk
 - b) Computer Aided Data
 - c) Computer Aided Design
 - d) Computer Assist Design
95. Who is the current secretary general of the UN?
- a) Wan ki Moon
 - b) U thant
 - c) Antonio Guterres
 - d) Kofi Annan
96. The national game of Nepal is:
- a) Cricket
 - b) Volleyball
 - c) Kabaddi
 - d) Football
97. The CEO of Google is:
- a) Satya Nadella
 - b) Jeff Bezos
 - c) Warren Buffet
 - d) Sundar Pichai
98. What is the capital of Canada?
- a) Ottawa
 - b) Canberra

- c) Vancouver
99. Logarithm tables were invented by:
a) Blaise Pascal b) John Napier
c) Charles Babbage d) John Douglas
- d) Winnipeg
100. Who is known as the father of the Internet?
a) Lawrence Roberts b) Ray Tomlinson
c) Vint Cerf d) Tim Berners-Lee

Answer Key:

1.d	2.c	3.a	4.c	5.c	6.d	7.b	8.d	9.c	10.b
11.a	12.a	13.c	14.b	15.d	16.a	17.c	18.a	19.c	20.c
21.a	22.a	23.c	24.c	25.a	26.d	27.a	28.c	29.d	30.d
31.d	32.a	33.d	34.b	35.b	36.b	37	38	39	40
41.c	42.a	43.b	44.a	45.d	46.a	47.b	48.a	49.d	50.c
51.	52.c	53.c	54.a	55.a	56.b	57.a	58.b	59.b	60.a
61.c	62.c	63.c	64.b	65.a	66.d	67.d	68.a	69.b	70.a
71.c	72.a	73.a	74.d	75.b	76.c	77.a	78.b	79.a	80.b
81.b	82.b	83.c	84.a	85.c	86.c	87.c	88.a	89.a	90.c
91.d	92.c	93.a	94.c	95.c	96.b	97.d	98.a	99.b	100.c