Bachelor in Computer Applications (BCA)
Entrance Exam
Model Set-5

Full Marks:100

Time:2hr

Group A[English]

Circle the correct answer from among the given options. (Multiple Choice Questions):

1. Above Board
   a) boasting person
   b) honest and straightforward
   c) a man with arrogance
   d) a dishonest person

2. Call a spade a spade
   a) to disrespect
   b) to say in anger
   c) to speak plainly
   d) to manipulate

3. Roots and branch
   a) entirely
   b) step by step
   c) part by part
   d) bare truth

4. Broadly speaking letters may be said to .... Into two categories.
   a) belong   b) fall   c) split   d) convert

5. The last decade has been.............for management education and development.
   a) dogmatic
   b) paradoxical
   c) praiseworthy
   d) outstanding

6. Bandy words
   a) to argue
   b) to request
   c) to give respect
   d) to be polite

7. Ever and Anon

a) true promise   b) false promise
c) frequent   d) sometimes

8. The synonym of "Spurious" is:
   a) false   b) harmful
   c) poisonous   d) foreign

9. Which one is appropriate synonym of "Annex".
   a) add   b) low   c) copy   d) initial

10. Give an exact synonym of "Concert".
    a) beauty   b) power
    c) agreement   d) none of these

11. The antonym of "Engage" is:
    a) abstain   b) liberate
    c) release   d) join

12. Glve the antonym "Fable".
    a) truth   b) fact
    c) reality   d) actuality

13. What is the antonym of "Moist"?
    a) parched   b) dry   c) hard   d) crisp

14. The meaning of "shimmer" is:
    a) to flicker like sunlight
    b) to shine like sunlight
    c) to move like sunlight
    d) all of the above

15. The word "Snub" gives the meaning as:
    a) to ignore   b) to avoid
    c) to shun   d) all of the above

16. The enemy paid a large sum as…………
    a) redress   b) amends
    c) compensation   d) punishment

17. …………is a person who dabbles in arts and letters.
    a) chauvinist   b) connoisseur
    c) philistine   d) dilettante

18. We lost confidence on him because he never.........the grandiose promises he made.

a) forgot

b) tired

c)delivered on

d) Relied upon

19. His.......in his family's position is great but he does not boast about it.

a) status

b) pride

c) deceit

d) presumption

20. Even when murunga's reputation was in......almost everyone was willing to admit that he had genius.

a) failure

b) rebuttal

c) accumulation

d) eclipse

21. Shyam was no control..........his temper.

a) after   b) in   c) over   d) at

22. She could not dissociate herself......what she said earlier.

a) of   b) with   c) off   d) from

23. We travelled....... a boat to reach dhaka.

a) for   b) on   c) about   d) by

24. I am used..........such hardships.

a) for   b) at   c) from   d) to

25. I was disappointed..............not finding the doctor in his seat.

a) from   b) on   c) at   d) in

26. Ram is confident..............his success.

a) for   b) about   c) towards   d) of

27. The reward was not commensurate......the work done by us.

a) on   b) for   c) with   d) order

28. The citizens must not murmur...........new taxes.

a) over

b) upon

c) against

d) with

29. What do you infer...........this boy's hesitating behavior?

a) from
b) for
c) with
d) against

30. Beggar begged money...........me.
    a) to
    b) from
    c) by
    d) with

31. The word 'profuse' is meant for:
    a) not many
    b) an average number
    c) great abundance
    d) correct amount

32. Give a wide berth
    a) to welcome
    b) to applaud
    c) to motivate
    d) to avoid

33. When the church comes
    a) moment of decision
    b) destination
    c) dotage
    d) win something

34. benevolent is meant to:
    a) generous
    b) kind
    c) good
    d) all of the above

35. Pyrrhic victory
    a) great victory
    b) victory with a policy
    c) much awaited victory
    d) victory at a high cost

36. Set people by ears.
    a) to incite people
    b) to listen carefully
    c) to give a long speech
    d) to abuse

37. Passage
38. Passage
39. Passage
40. Passage

Group-B[Mathematics]

41. The slope of the line passing through (a,b) and $(\frac{1}{a},b)$ is:

a) 0   b) 4   c) 3   d) 2

42. If P(AUB)=1,two events a and b are
   a) mutually exclusive
   b) equally likely events
   c) exhaustive events
   d) dependent events

43. The set $\{x:x^2+x+1=0, x\epsilon R\}$ is:

a) $\{1,\sqrt{3}\}$ b) $\{-1,\sqrt{3}\}$ c) {}   d) (-1,0)

44. Every rational number is also
   a) natural number   b) a whole number
   c) an integer number   d) areal number

45. If $f(u)=\frac{u}{u-1}$, then $\frac{f(a)}{f(a+1)}$ is:

a) f(-a)   b) $f(\frac{1}{a})$

c) $f(a^2)$ d) $f(\frac{-a}{a+1})$

46. If the first term of an AP is 2 and the common difference is 4. The sum of its 40 terms is:

a) 3200   b) 1600   c) 300   d) 1750

47. The value of $\cot 30^0$ is:

a) ½   b) $\frac{2}{\sqrt{3}}$ c) $\sqrt{3}$ d) 1

48. If AB=C exists, which of the following order of matrices is possible?

a) $A_2×_3, B_3×_2, C_2×_3$ b) $A_3×_2, B_2×_3, C_3×_2$

c) $A_3×_2, B_2×_3, C_3×_3$ d)$A_3×_3, B_2×_3, C_3×_3$

49. The area of 4 walls of square room is 120m².If the height is 5m, the area of its floor is

a) 56m²   b) 36m²

c) 46m²   d) 26m²

50. one -third of a number is 20 more than one-fifth of that number. What is the number?

     a) 30   b) 84   c) 102   d) 150

51. The value of $\begin{vmatrix} 48 & 1 & 6 \\ 32 & 5 & 4 \\ 16 & 3 & 2 \end{vmatrix}$ is :

     a) 1   b) 2   c) 0   d) 4

52. Raman salary was decreased by 50% and subsequently increased by 50%. He has a loss of:

     a) 0%   b) 25%   c) 0.25%   d) 2.5%

53. If a=4b, what percent of 2a is 2b?

     a) 10%   b) 20%   c) 25%   d) 26%

54. What percentage is 250 out of 1 kg?

     a) 25%   b) 35%   c) 24%   d) 30%

55. The equation of the straight line passing through (2,4) and having slope -2 is:

     a) 2x+y=8   b) 2x-y=4

     c) x+2y=8   d) x-2y=4

56. A sum reckoned at 12% SI amounts to Rs.2409 in 4 years, the sum is:

     a) 1625   b) 1635   c) 1640   d) 1652

57. Ram gains the cost price of 10 books by selling 50 books.His profit percentage is:

     a) 30%   b) 25%   c) 20%   d) 16%

58. The cost price of 12 articles is equal to the selling price of 9 articles, the profit percent is

     a) 33.33%   b) 40.5%   c) 45%   d) 49%

59. The area of a triangular field whose three sides are 300,400 and 500m (in m²) is:

     a) 6000   b) 5000   c) 400   d) 200

60. The number of bricks, each 4cm×3cm×2cm are required to construct a wall having the dimension 11cm×96cm×64cm is:

a) 281500   b) 281600   c) 218500   d)2185

61. The selling price of 20 articles is equal to the cost price of 20 articles.The gain percentage is

a) 25%   b) 50%   c) 60%   d) 70%

62. The value of $\sec 60^0$ is:

a) ½   b) $\frac{\sqrt{3}}{2}$

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

63. The rate percent per annum that a sum of money trebles itself in 25 years is:

a) 25%   b) 10%   c) 4%   d) 8%

64. The present age of mother and her daughter are 30 years and 14 years respectively.the number of years ago that the product of their age was 192 is:

a) 5   b) 6   c) 7   d) 9

65. If 5 is subtracted from the square of a number and the result is 20,the number is:

a) ±5   b)±6   c) ±7   d) ±9

66. A rope is 40 ft. long is cut into two pieces,If one piece is 18 ft. longer than the other.What is the length,in feet,of the shorter piece?

a) 11   b) 12   c) 13   d) 14

67. If $M = \begin{pmatrix} 1 & 2 \\ 2 & 3 \end{pmatrix}$, $M^2 - nM - I = 0$, the value of n is :

a) -2   b) -4   c) 4   d) 2

68. The inequality $-7 \leq 2x+5 \leq 7$ is equivalent to:

a) $-6 \leq x \leq 1$ b) $-6 < x < 1$
c) $-7 \leq x \leq 5$ d) $-6 \leq x \leq 1$

69. If f(x)=3x+5,the value of $\frac{f(x+h)-f(x)}{h}$ is:

a) 2   b) 3   c) 4   d) 5

70. The difference of two irrational numbers is:
    a) always an irrational number
    b) always a rational number
    c) always a real number
    d) All of the above

71. If p-q+r=4 and p+q+r=8, the value of p+r=
    a) 2　　　　　b) 4　　　　　c) 6　　　　　d) 8

72. If $\dfrac{a}{4}=\dfrac{b}{5}=\dfrac{c}{9}$ then, $\dfrac{a+b+c}{c}$ is
    a) 4　　　　　b) 2　　　　　c) 7　　　　　d) none

73. If 60% of 450=15x, the value of x is:
    a) 6　　　　　b) 18　　　　　c) 36　　　　　d) 72

74. The system of equation -4x+6y+2z=8 and 2x-3y-z=-14 have:
    a) unique solution　　　　　b) no solution
    c) infinitely many solutions　　　　　d) none of these

75. The area of rectangular field is 493m² and its perimeter is 92 meter. the length and breadth(in m) are:
    a) 7,4　　　　　b) 9,7　　　　　c) 29,17　　　d) 19,13

76. While solving the value of x is $x^3-3x^2+3x-1=0$
    a) 2　　　　　b) 1　　　　　c) both　　　　　d) none

77. The sides of a triangle are 3cm,4cm and 5cm.it is:
    a) a right-angled triangle
    b) an isosceles triangle
    c) an equilateral triangle
    d) none of these

78. Which of the following represents all solutions of the inequality $x^2<2x$?
    a) -1<x<1　　　　　b) 1<x<3
    c) 0<x<2　　　　　d) 4<x<6

79. If the terms 2x,x+10 and 3x+2 be in AP,the value of x is
    a) 7　　　　　b) 10　　　　　c) 6　　　　　d) 5

80. If $t_n=3n-2$, the value of S_5 is:

a) 35 b) 40 c) 45 d) 50

81. If $S_n = 1+2+3+\ldots\ldots+n = 20$ the sum of the series
$S_n = 1^3+2^3+3^3+\ldots\ldots+n^3$ is:

a) 400 b) 500 c) 450 d) 1000

82. While selling a pen for Rs.50, there is a loss of 5%, for what price should it be sold to gain 5%?

a) 55.26 b) 52.63 c) 55 d) 56.32

83. A man sold 250 chairs and had gain equal to the selling price of 50 chairs. His profit percent is:

a) 5% b) 10% c) 25% d) 50%

84. A watch is bought at Rs.250 and sold at Rs.300, the gain percentage is:

a) 25% b) 20% c) 50% d) none

85. The list price of an article is 25% above the selling price and cost price is 40% below the list price, then rate of discount is:

a) 15% b) 205 c) 25% d) 40%

86. If $A = \begin{pmatrix} n & 0 \\ 0 & 1 \end{pmatrix}$ and A^2 is identity matrix, the value of n is:

a) 1 b) 2 c) 0 d) 3

87. If $P = \begin{pmatrix} 1 & 2 \\ 3 & -4 \end{pmatrix}$, $Q = \begin{pmatrix} x & 3 \\ 2 & -1 \end{pmatrix}$, determinant of $2p - 3Q$ is -5, the value of x is equal to:

a) -1/2 b) ½ c) -1/3 d) – 1/4

88. The simple interest on Rs.1250 for 5 years at 8% p.a is:

a) 480 b) 1000 c) 500 d) 625

89. If a sum of money doubles itself in 8 years at simple interest, the rate percent per annum is:

a) 10.5% b) 11.5% c) 12.5% d) 13.5%

90. If two numbers are in the ratio 5:7 and their least common multiple is 315, their product is:

a) 2385 b) 2538 c) 2358 d) 2835

Group-C [General Knowledge]

91. The famous Halesi mahadev temple is situated in:
    a) Taplejung
    b) Khotang
    c) Sarlahi
    d) Morang

92. The oldest flag in the world is of:
    a) Italy
    b) Russia
    c) Denmark
    d) China

93. The Guitar was firstly introduced from:
    a) Spain
    b) Germany
    c) France
    d) America

94. In computer abbreviation of AI usually means?
    a) Art Info
    b) Artificial Intelligence
    c) Artificial interest
    d) Artificial Internet

95. Who is the current vice chancellor of the Tribhuvan University?
    a) Dilli Pd. Sapkota
    b) Shivalal Bhusal
    c) Ram pd. Khatiwada
    d) Tirtha Khaniya

96. The national game of Bhutan is:
    a) Cricket
    b) Archery
    c) Bull fighting
    d) Football

97. The CEO of Apple is:
    a) Satya Nadela
    b) Tim Cook
    c) Warren Buffet
    d) Sundar Pichai

98. What is the capital of Brazil?
    a) Brasilia
    b) Rio de Janeiro
    c) São paulo
    d) Salvador

99. Who is the captain of Nepal's National Football team?
    a) Anil gurung
    b) Bimal Gharti
    c) Bharat Khawas
    d) Biraj Maharjan

100. Which country is known as 'the Gift of Nile'?

a) Iraq

b) Iran

c) Egypt

d) Italy

Answer Key:

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