Bachelor in Computer Applications (BCA)
Entrance Exam
Model Set-2

Full Marks:100   TIme:2hr

Group A[English]

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

1. To get into hot water.
   a) Bath in the winter months
   b) to get healthy
   c) to get rich
   d) to get into trouble

2. I cannot wait to ……………from the city.
   a) get away
   b) get in
   c) get out
   d) get on

3. Sorry I interrupted, …………talking.
   a) carry out
   b) carry on
   c) carry in
   d) carry of

4. Maria …………as a bit bossy.
   a) came off
   b) came down
   c)came across
   d) came on

5. We finally…………a solution to the problem.
   a) came out of
   b) came in of
   c) came up of
   d) came on of

6. We're not together anymore, but we………great.
   a) get out
   b) get along
   c) get across
   d) get in

7. As always, Janny………… late.
   a) turned down
   b) turned of
   c)turned in
   d) turned up

8. The synonym of "WISE" is:
   a) momentous
   b) pragmatic

c) judicious   d) delay

9. Which one is appropriate synonym of "WEARY"?
    a) sad   b) fatigued
    c) sentimental   d) emotional

10. Give an exact synonym of "BLAND".
    a) unpleasant   b) irritating
    c) affable   d) tasteless

11. The antonym of "HINDER" is:
    a) expedite   b) protect
    c) devote   d) create

12. Give the antonym of "PROVE"
    a) vapid   b) assume
    c) disinclined   d) atone

13. Basketball is played on court as Golf is played on:
    a) Ring   b) course
    c) Diamond   d) Field

14. Beauty is to ugliness as adversity is to…………
    a) misery   b) cowardice
    c) happiness   d) prosperity

15. This legend has been ………………..from father to son.
    a) handed out   b) handed down
    c) handed over   d) handed in

16. All of us should abide…………the laws of our country.
    a) on   b) to
    c) in   d) by

17. The accused …………having made any statement.
    a) refused   b) rejected
    c) declaimed   d) denied

18. The opposite of "Boost" is:
    a) hinder
    c) discourage   b) obstruct
                                                d) rebuke

19.

20.

21.

22.

23.

24.

25.

26.

27.

28.

29.

30.

31.

32.

19. No sooner did he.......me.............he tried to run.
    a) notice, when
    b) see, then
    c) observe, soon
    d) watch, that
20. We had a wonderful view of the bay through the ....
    a) window
    b) Zenith
    c) vicinity
    d) proximity
21. The old man suffered...................a heart attack.
    a) of
    b) from
    c) to
    d) with
22. Her next birthday will be .... a Sunday.
    a) of   b) to   c) on   d) with
23. He is responsible .... what he does.
    a) at   b) by   c) from   d) for
24. I haven't seen her .... five years.
    a) for   b) since   c) in   d) none of these
25. You look good.............. that dress.
    a) in   b) on   c) no preposition   d) all of the above
26. He sits ....the computer all day.
    a) in front of   b) until   c) before   d) none of these
27. He had to repent.................what he had done.
    a) of   b) over   c) for   d) at
28. Let this be an example ....the troublemakers.
    a) to   b) about   c) for   d) against
29. To draw a line.
    a) To impose certain restrictions   b) To restart
    c)To have a fair game   b) To decide evenly
30. The new owners of the paper changed the ....completely.
    a) layout   b) outlook   c) outlay   d) outlet
31. Lost in the clouds.
    a) to enjoy   b) to wait
    c) confused   d) very much sure
32. Hang Fire.

a) in anger
b) calm
c) solved issue
d) unresolved issue

33. By hook or by crook.
a) by permission
b) by any means
c) by noble means
d) by request

34. At sixes and sevens.
a) in perfect order
b) very happy
c) in disorder
d) very sad

35. Die hard.
a) very weak
b) about to die
c) living life full
d) persistent in struggle

36. He ……………to us for half an hour.
a) said
b) spoke
c) talked
d) told

Read the following passage carefully and answer the questions given below it.

At this stage of civilization, when many nations are brought in to close and vital contact for good and evil, it is essential, as never before, that their gross ignorance of one another should be diminished, that they should begin to understand a little of one another's historical experience and resulting mentality. It is the fault of the English to expect the people of other countries to react as they do, to political and international situations. Our genuine goodwill and good intentions are often brought to nothing, because we expect other people to be like us. This would be corrected if we knew the history, not necessarily in detail but in broad outlines, of the social and political conditions which have given to each nation its present character.
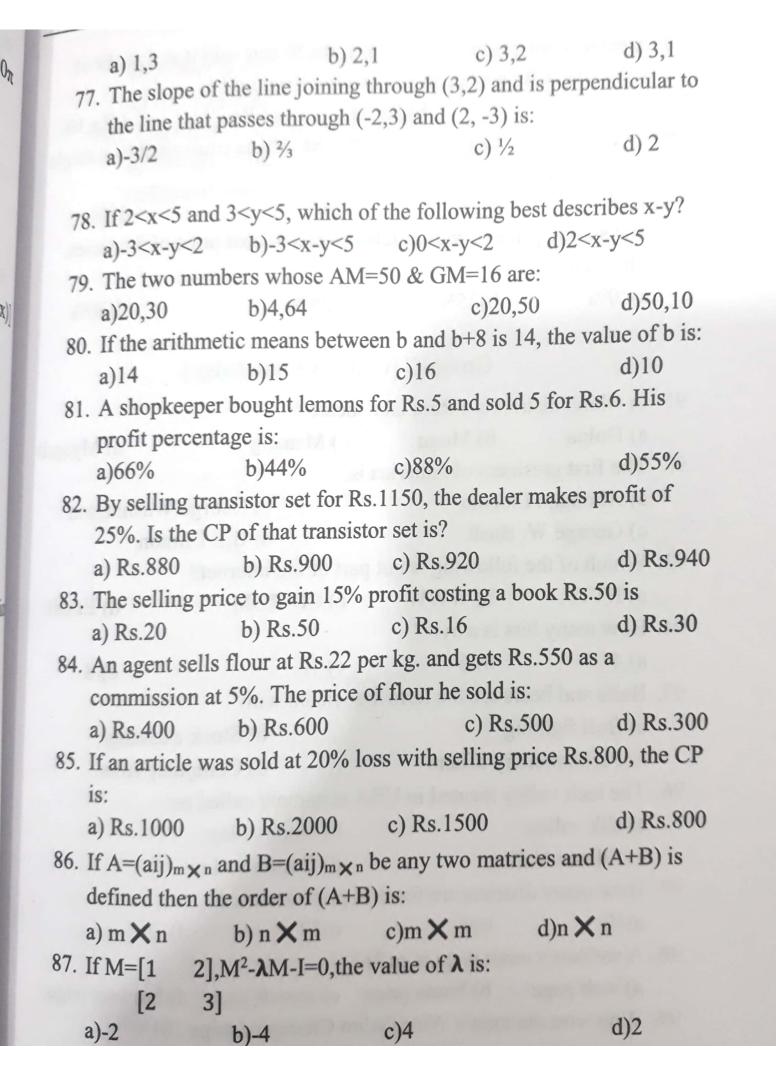
37. According to the author 'Mentality' of a nation is mainly product of its

a) History
c) politics

b) international position
d) present character

38. The need for a greater understanding between nations
    a) was always there
    b) is no longer there
    c) is more today than ever before
    d) will always be there

39. The character of a nation is the result of its
    a) Mentality
    c) gross ignorance

    b) Cultural heritage
    d) socio-political conditions

40. Englishmen like others react to political situations like
    a) us
    c) others

    b) themselves
    d) each other

Group-B[Mathematics]

41. The slope of the straight line $4y+2x=5$ is:
    a)-2   b)5/2   c) ½   d)-½
42. What is the probability of death?
    a)1   b) ½   c)0   d) ∞
43. The minimum value of n(A∩B) when n(U)=120, n(A)=90,
    n(B)=55 is:
    a) 40   b) 25   c) 30   d) 35
44. For any two real numbers is x and then |x+y| is
    a) equals to |x|+|y| b) less than |x|+|y|
    c) equals to x+y   d) less than or equal to |x|
45. If the function $f(x)=3-x^2$, then f(x) is:
    a) even function   b) periodic function

c) odd function   d) none of these

46. The nth term of the series $1+x+x^2+$.........n terms is:$(x<0)$ \

 a)$\dfrac{1-xn}{1-x}$ b)$\dfrac{1-x}{x-1}$ c)$\dfrac{1-x}{1-x}$ d)$\dfrac{x}{x-1}$

47. The value of $\cos 180^0$ is equal to:

 a) 1   b) -1 c) 0   d) ∞

48. A and B are square matrices of same order such that AB=A and BA=B,A is:

 a) diagonal matrix   b) idempotent matrix
 c) null matrix   d) symmetric matrix

49. What is the surface area of a cube whose volume os 64?

 a)16   b) 64
 c) 96   d)128

50. The value of $\sqrt{(31-6)(16-9)}$ equals to:

 a) 5   b)10
 c) 25   d) 30

51. A is a matrix of order 3×2, then each column of A contains:

 a)2 elements   b) 6 elements
 c) 3 elements   d) none of these

52. 10 is what % of B?

 a)10B%   b)10/n%   c)100/n %   d)1000/B

53. The cost of 1 liter of petrol is Rs.80. The cost is increased by 30%, what will be the cost of 8 liters petrol?

 a)834   b)832   c)330   d)328

54. If the angles of a triangle are at a ratio of 2:3:4, the greatest angle of the triangle is:

 a)70   b)80   c)90   d)100

55. The sum of money if it is compounded annually in rate of 5% for 2 years amounts to be Rs.44100 is:

 a) 50000   b) 40000   c) 45000   d) 55000

56. If the selling price of Rs.24 results in a 20% discount off the list price, the selling price that would result in a 30% discount off the list price is:

a) Rs.16   b) Rs.21   c) Rs.25   d) Rs.31

57. Ram buys one gross pencil for Rs. 288. He sold each for Rs.2.25. His total profit is:

a) Rs.36   b) Rs.46   c) Rs.25   d) Rs.63

58. What is the cost of fencing a rectangular field of 50m ✕ 35m with the barbed wire running twice around it at the rate of Rs.5 per meter?

a) Rs.1250   b) Rs.1550   c) Rs.1700   d) Rs.2550

59. The area of an equilateral Triangle can be calculated from:

a) $\sqrt{s(s-a)(s-b)(s-c)}$ b) ½ *b*h

c) $\sqrt{3}/4a^2$ d) none of the above

60. A dealer altered his trade discount from 15% to 10%, By what percent was the selling price altered?

a) 5.88%   b) 5.56%   c) 6.88%   d) 7%

61. Two successive discounts of 20% and 15% is equivalent to a single discount of

a) 18   b) 24   c) 32   d) 36

62. The value of tan 45⁰ is

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

63. The principal that will yield an interest of Rs.540 in 15 months at 2 paisa per rupees per month is:

a) 1080   b) 1800   c) 8100   d) 8010

64. Hari will be x years old y years old from now's years ago he was:

a) x+y+z   b) x-y-z   c) y-x-z   d) z-y-z

65. A number consists of two digits whose product is 21. If 36 is subtracted from the number, the digits are interchanged. The number is:

a)73   b) 72   c) 97   d) 24

66. What is the circumference of a circle whose area is 100π?

    a)10   b)20   c)10π d)20π

67. The system of equations $2x+3y=6$ and $4x+6y=8$ have

    a) unique solution   b) no solution

    c)infinitely many solutions   d) none

68. If $|x|>2$ means:

    a)$2<x<2$ b)$-2<x\le2$

    c) $x<-2$ or $x>2$ d) $x>-2$

69. If $f(x)=2x+3$ and $g(x)=x^2+7$, then the value of x for which $f[g(x)]$ $=25$ are

    a) ±1 b) ±2

    c) ±3 d) ±4

70. If a matrix is of order 7×5, each column will contain

    a)5 elements   b) 7 elements

    c)6 elements   d) 35 elements

71. The system of equations $2x+y=4,3x+2y=-2$ and $x+y=-2$ have:

    a) no solution   b) one solution

    c) two solutions   d) infinitely many solutio

72. If $A:B=5:4$ and $B:C=6:7$,the value of $A:B:C$ is:

    a) 30:24:28   b) 5:24:7

    c) 5:4:7   d) 5:6:7

73. If $5:7=15:x$, the value of x is:

    a)35   b)27   c)21   d)18

74. The sum of the reciprocals of $\dfrac{1}{x2}$ and $\dfrac{1}{y2}$ is:

    a)$\dfrac{1}{x}+\dfrac{1}{y}$ b) x^2+y^2 c) x^2y^2 d) x^4y^4

75. The width of a rectangle is 2cm less than its length & its length and perimeter is 12cm.the area of a rectangle is:

    a) 12cm²   b) 24cm²   c) 18cm²   d) 8 cm²

76. The solution of the system of equation $x-y=2$ & $2x+3y=9$ i

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

77. The slope of the line joining through (3,2) and is perpendicular to the line that passes through (-2,3) and (2, -3) is:

a)-3/2   b) ⅔   c) ½   d) 2

78. If 2<x<5 and 3<y<5, which of the following best describes x-y?

a)-3<x-y<2   b)-3<x-y<5   c)0<x-y<2   d)2<x-y<5

79. The two numbers whose AM=50 & GM=16 are:

a)20,30   b)4,64   c)20,50   d)50,10

80. If the arithmetic means between b and b+8 is 14, the value of b is:

a)14   b)15   c)16   d)10

81. A shopkeeper bought lemons for Rs.5 and sold 5 for Rs.6. His profit percentage is:

a)66%   b)44%   c)88%   d)55%

82. By selling transistor set for Rs.1150, the dealer makes profit of 25%. Is the CP of that transistor set is?

a) Rs.880   b) Rs.900   c) Rs.920   d) Rs.940

83. The selling price to gain 15% profit costing a book Rs.50 is

a) Rs.20   b) Rs.50   c) Rs.16   d) Rs.30

84. An agent sells flour at Rs.22 per kg. and gets Rs.550 as a commission at 5%. The price of flour he sold is:

a) Rs.400   b) Rs.600   c) Rs.500   d) Rs.300

85. If an article was sold at 20% loss with selling price Rs.800, the CP is:

a) Rs.1000   b) Rs.2000   c) Rs.1500   d) Rs.800

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

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

87. If M=[1   2], $M^2-\lambda M-I=0$, the value of λ is:
       [2   3]

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

88. A book seller purchased a book at Rs.20 and sold it at a profit of 15%. The selling price in Rs. of a book would be:

a) Rs.22　　　　　　b) Rs.23　　　　　c) Rs.27　　　　　d)Rs.30

89. Two successive discounts of 20% and 15% is equivalent to a single discount of

a)18　　　　　b)24　　　　　c)32　　　　　d)36

90. The selling price of four articles equals to cost price of 5 articles. The gain is:

a)20%　　　　b)25%　　　　c)28%　　　　d)30%

Group-C [General Knowledge]

91. In which district is a Rara lake located?

a) Dolpa　　　b) Mugu　　　c) Manang　　　d) Myagdi

92. The first president of America is:

a) Abraham Lincoln　　　　　　　b) George Washington

c) George W. Bush　　　　　　　d) Bill Clinton

93. Which of the following is not part of the internet?

a) HTTP　　b) WWW　　　c) CD-ROM　　　d) Email

94. How many bits is a byte?

a) 4　　　　b) 6　　　　c) 10　　　　d) 8

95. Bulls and bears are the term associated with:

a) Bull fighting　　　　　　　b) Stock exchange

c) Parliamentary affairs　　　　d) Computer virus

96. The tech valley located in USA is namely called as:

a) slik valley　　　　　　　b) wool valley

c) Silicon Valley　　　　　　d) Cotton valley

97. How many districts are there in province no. 5?

a)10　　　　b)9　　　　c)17　　　　d)12

98. A website's main page is called

a) web page　　b) home page　　c) search page　　d) browser page

99. Who won the men's Wimbledon Championships 2018?

a) Rafael Nadal

b) Novac Djokovic

c) Andy murray

d) Roger Federer

100. The national anthem of Nepal was written by:

a) Bairagi Kaila

b) Byakul Saila

c) Byakul Maila

d) Ambar Gurung

Answer Key:

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