

Online Examinations (Even Sem/Part-I/Part-II Examinations 2020 - 2021)

Course Name - Mathematics-II

Course Code - BCA204

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Answer all the questions. Each question carry one mark.

9. 1. The graph of the normal distribution depends on

Mark only one oval.

- Mean and Standard Deviation
- Harmonic Mean and Standard Deviation
- Harmonic Mean
- Standard Deviation Only

10. 2. Every vertex of a null graph is

Mark only one oval.

- Pendant
- Isolated
- Odd
- none of these

11. 3. An edge whose two end vertices coincide is called

Mark only one oval.

- ring
- adjacent edge
- loop
- none

12. 4. A vertex whose degree 1 is called

Mark only one oval.

- isolated vertex
- pendant vertex
- even vertex
- none

13. 5. The degree of an isolated vertex is

Mark only one oval.

0

1

2

3

14. 6. A complete graph must be a

Mark only one oval.

circuit

regular graph

non-simple graph

null-graph

15. 7. The degree of the common vertex of two edges in series is

Mark only one oval.

0

1

2

3

16. 8. A simple graph has

Mark only one oval.

- no parallel edges
- no loops
- no parallel edges and no loops
- no isolated vertex

17. 9. A tree is a

Mark only one oval.

- any connected graph
- minimally connected graph
- Euler graph
- none

18. 10. A minimally connected graph cannot have a cycle

Mark only one oval.

- cycle
- component
- even vertex
- pendant vertex

19. 11. A binary tree has exactly

Mark only one oval.

- two vertices of degree 2
- one vertex of degree 2
- one vertex of degree 1
- one vertex of degree 3

20. 12. Sum of the degrees of all vertices of a binary tree is even if the tree has

Mark only one oval.

- odd no of vertices
- even no of vertices
- four vertices
- none of these

21. 13. A tree always is a

Mark only one oval.

- self-complement graph
- Euler graph
- simple graph
- Hamiltonian graph

22. 14. Addition of an edge between any two vertices of a tree creates

Mark only one oval.

- Euler line
- Circuit
- Longest path
- Regular graph

23. 15. A connected graph with 150 vertices and 149 edges is

Mark only one oval.

- Not a minimally connected graph
- Euler graph
- Binary tree
- Tree

24. 16. Minimal spanning tree is found by

Mark only one oval.

- Dijkstra's algorithm
- Ford-Fukerson's algorithm
- Floyd algorithm
- Kruskal's algorithm

25. 17. To make a graph (with e edges and n vertices) free from any circuit the minimum number of edges to be removed from G is

Mark only one oval.

- $e-n$
- $e-n+1$
- $n-1$
- $e-1$

26. 18. A graph with no circuit and no parallel edges is called

Mark only one oval.

- Multi graph
- Pseudo graph
- Simple graph
- None of these

27. 19. If a graph has 6 vertices and 15 edges then the size of its adjacency matrix is

Mark only one oval.

- 6×6
- 6×15
- 15×6
- 15×15

28. 20. A minimally connected graph is a

Mark only one oval.

- Binary tree
- Hamiltonian graph
- Tree
- Regular graph

29. 21. A single vertex graph is

Mark only one oval.

- 1-chromatic
- Option 2
- 2-chromatic
- 3-chromatic

30. 22. A complete graph with five vertices is called

Mark only one oval.

- Regular graph
- Kuratowski's first graph
- Kuratowski's second graph
- None of these

31. Kuratowski's graph is a

Mark only one oval.

- Planar graph
- Regular graph
- Tree
- None of these

32. 24. Cumulative Frequency Curve is also called

Mark only one oval.

- Polygon
- Cumulative frequency polygon
- Ogive
- Histogram

33. 25. _____ use the division of a circle into different sectors

Mark only one oval.

- Polygon
- Line graph
- Sector Graph
- Conversion graph

34. 26. A frequency polygon is a close figure of

Mark only one oval.

- Two sided
- Three Sided
- Many sided
- None of these

35. 27. Frequency curve is

Mark only one oval.

- Asymptotic to y-axis
- Non-Asymptotic to y-axis
- Asymptotic x-axis
- None of these

36. 28. Component bar charts are used when data is divided into

Mark only one oval.

- Circles
- Groups
- Parts
- None of these

37. 29. A circle in which sectors represents various quantities is called

Mark only one oval.

- Polygon
- cumulative frequency polygon
- Ogive
- Histogram

38. 30. The relations between mean, median & Mode is

Mark only one oval.

- Mode=3 Median-2 Mean
- Mode=3 Median+2 Mean
- Mode= 2 Median-3 Mean
- Mode= 2Median+3 Mean

39. 31. The median of the scores of 9 students 9,8,4,6,7,4,11,13,10 is

Mark only one oval.

- 9
- 8
- 8.5
- None of these

40. 32. The mode of the observations 2,1,1,2,3,5,2,1,2,6,4,4,2,1,3 is

Mark only one oval.

3

4

2

1

41. 33. The standard deviation of the observations 5,1,7,2,6,3 is

Mark only one oval.

4.66

2.16

1.47

None of these

42. 34. The standard deviation of the observations 4,8,10,12,16 is

Mark only one oval.

1

2

3

4

43. 35. If the A.M 2,6,x,5,7 be 4, then the value of x is

Mark only one oval.

0

4

5

12

44. 36. The variance of 1,5,6 is

Mark only one oval.

4.67

9.1

0.067

0.0367

45. 37. If $\text{var}(x)=5$ and $y=5x+6$ then $\text{var}(y)$ is equal to

Mark only one oval.

125

150

5

6

46. 38. Largest value is 60 and smallest value is 40 and number of classes desired is 5 then class interval is

Mark only one oval.

20

4

25

15

47. 39. Largest value is 60 and smallest value is 40 and number of classes desired is 5 then class interval is

Mark only one oval.

20

4

25

15

48. 40. The grouped data is also called

Mark only one oval.

Raw Data

Primary Data

Secondary data

Qualitative data

49. 41. Dividing the upper and lower limits of a particular class we get

Mark only one oval.

- Class Interval
- Class Frequency
- Class Boundary
- Class Mark

50. 42. The graph of cumulative frequency is called

Mark only one oval.

- Polygon
- Cumulative frequency polygon
- Ogive
- Histogram

51. 43. Total Relative Frequency is always

Mark only one oval.

- One
- Half
- TWO
- None of these

52. 44. The graph of the normal distribution depends on

Mark only one oval.

- Mean and Standard Deviation
- Harmonic Mean and Standard Deviation
- Harmonic Mean
- Standard Deviation Only

53. 45. Total angles (in degree) in Pie chart are

Mark only one oval.

- 90
- 180
- 270
- 360

54. 46. The process of systematic arrangement of data in rows and columns is called

Mark only one oval.

- Array
- Tabulation
- Arrangement
- None of These

55. 47. In a histogram the area of each rectangle is proportional to

Mark only one oval.

- the class mark of the corresponding class interval
- the class size of the corresponding class interval
- frequency of the corresponding class interval
- None of these

56. 48. A dice is thrown then the probability of obtaining a 'six' is

Mark only one oval.

- 1/6
- 1/3
- 1/2
- None of these

57. 49. Three coins are tossed at random. Then the probability that there will be at least one head is

Mark only one oval.

- 3/8
- 7/8
- 8/9
- None

58. 50. One card is drawn from a pack of 52 cards. The probability which is either king or queen is

Mark only one oval.

- 1/13
- 3/13
- 2/13
- 4/13

59. 51. A bag contains five red and four black balls. Two balls are drawn at random. The probability that they match is

Mark only one oval.

- 2/9
- 4/9
- 1/9
- 1/3

60. 52. Two perfect coins are tossed simultaneously, the probability of getting at least one head is

Mark only one oval.

- 1/2
- 1/4
- 3/4
- 2/3

61. 53. 50 tickets are serially numbered 1 to 50. One ticket is drawn from these at random. The probability of it being a multiple of 3 or 4 is

Mark only one oval.

12/25

6/25

18/25

8/15

62. 54. A bag contains seven black, four white and three red balls. The probability of drawing red or black ball is

Mark only one oval.

4/9

1/3

5/9

2/3

63. 55. One number is selected at random from 1 to 100. The probability that it is a perfect square is

Mark only one oval.

3/7

5/7

4/7

1/10

64. 56. Tickets numbered 1 to 20 are mixed up and then a ticket is drawn at random. What is the probability that the ticket drawn has a number which is multiple of 3 or 5?

Mark only one oval.

- 7/20
- 8/20
- 1/20
- 9/20

65. 57. What is the probability of getting a sum 9 from two throws of a dice?

Mark only one oval.

- 1/3
- 1/9
- 2/9
- 6/9

66. 58. In a lottery there are 10 prizes and 25 blanks. A lottery is drawn at random. What is the probability of getting a prize?

Mark only one oval.

- 5/7
- 2/7
- 6/7
- 5/6

67. 59. A card is drawn from a pack of 52 cards. The probability of getting a queen of club or a king of heart is

Mark only one oval.

- 1/26
- 1/25
- 4/26
- 3/26

68. 60. A bag contain 4 white, 5 red and 6 blue balls. The balls are drawn at random from the bag. The probability that all of them are red is

Mark only one oval.

- 4/26
- 2/91
- 2/26
- Not enough information

69. 61. A bag contains 6 black , 8 white balls. One ball is drawn at random. What is the probability that the ball drawn is white?

Mark only one oval.

- 4/7
- 3/7
- 5/7
- 6/7

70. 62. An urn contains 6 red, 4 blue, 2 green and 3 yellow marbles. If 4 marbles are picked up at random, what is the probability that at least one of them is blue?

Mark only one oval.

- 2/91
- 60/91
- 69/91
- 67/91

71. 63. A bag contains 3 blue, 2 green and 5 red balls. If 4 balls are picked up at random, what is the probability that two are green and two are blue?

Mark only one oval.

- 1/18
- 1/70
- 1/60
- 2/35

72. 64. In a simultaneous throw of two dice, what is the probability of getting a total 10 or 11?

Mark only one oval.

- 2/36
- 35/36
- 31/36
- 5/36

73. 65. 4 persons are chosen at random from a group of 3 men, 2 women and 4 children. The chance of exactly two of them are children is

Mark only one oval.

13/21

12/21

11/21

10/21

74. 66. A bag contains 6 blue, 2 red, 4 green and 3 yellow balls. If three balls are picked up at random, what is the probability that none is yellow?

Mark only one oval.

47/93

69/91

60/91

44/91

75. 67. The probability that 4 children of a family have different birthdays is

Mark only one oval.

0.9836

0.1236

0.4689

0.9864

76. 68. Three numbers are chosen at random from 1 to 20. The probability that they are consecutive is

Mark only one oval.

- 1/3
- 1/190
- 2/190
- 3/190

77. 69. A speaks truth in 75% cases and B speaks truth in 80% cases. The probability that they contradict each other in a statement is

Mark only one oval.

- 5/20
- 6/20
- 7/20
- 8/20

78. 70. The probability for a randomly chosen month to have its 10th day as Sunday is

Mark only one oval.

- 1/84
- 2/84
- 7/84
- 81/784

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