Online Assessment (Even Sem/Part-I/Part-II Examinations 2019 - 2020

Course Name - Mathematics - II
Course Code - BCA204(BL)

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- M.A.(MW)
- MBA
- MCA
- M.TECH(CSE)

Answer all the questions. Each question carry one mark.

9. 1. Every vertex of a null graph is

Mark only one oval.

- Pendant
- Isolated
- Odd
- None of these

10. 2. Which of the following statement is true?

Mark only one oval.

- A spanning tree is a super graph of G
- A spanning tree is a subgraph of G
- A spanning tree may not be a tree at all
- None of these

11. 3. 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
- 3/7
- 5/9

12. **********4. 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.

- 61/91
- 69/91
- 56/79
- 12/67

13. 5. Two cards are drawn from a pack of 52 cards. The probability that one is spade and one is heart is

Mark only one oval.

- 1/56
- 23/54
- 13/102
- 5/55

14. 6. Tree contains at least

Mark only one oval.

- one vertex
- two vertex
- three vertex
- None of these

15. 7. The minimum number of pendant vertices in a tree with five vertices is

Mark only one oval.

- 1
- 2
- 3
- 4

16. 8.The probability that a card is drawn from a pack of 52 cards will be a diamond or a king is

Mark only one oval.

- 13/78
- 4/13
- 4/65
- 3/8

17. 9. In a graph, if e=[u, v], Then u and v are called

Mark only one oval.

- Endpoints of e
- Neighbors
- Adjacent nodes
- All of these

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

Mark only one oval.

- 6X6
- 6X15
- 15X6
- 15X15

19. 11.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.

- 12/43
- 34/79
- 44/91
- 67/88

20. 12. A complete graph with five vertices is called

Mark only one oval.

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

21. 13. _____ use the division of a circle into different sectors

Mark only one oval.

- Polygon
- Line graph
- Sector graph
- Conversion graph

22. 14. A frequency curve touches the x-axis

Mark only one oval.

- Yes
- Never
- Sometimes
- Cannot say

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

Mark only one oval.

- 33/190
- 1/190
- 3/190
- 5/190

24. 16. A circle in which sectors represents various quantities is called

Mark only one oval.

- Polygon
- umulative frequency polygon
- Ogive
- Histogram

25. 17. In descriptive statistics, we study

Mark only one oval.

- The description of decision making process
- The methods for organizing, displaying and describing data
- How to describe the probability distribution
- None of these

26. 18. Which of the following is a measure of central tendency?

Mark only one oval.

- Percentile
- Quartile
- Standard Deviation
- Mode

27. 19. The variance of a random variable X is

Mark only one oval.

- {E(X)}2
- E(X2)
- E(X2) - {E(X)}2
- E(X2) - E(X)

28. 20. 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

29. 21. 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

30. 22. The standard deviation of the observations 4,8,10,12,16 is

Mark only one oval.

- 1
- 2
- 3
- 4

31. 23. 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

32. 24. The first hand and unorganized form of data is called

Mark only one oval.

- Secondary data
- Primary Data
- Organized Data
- None of these

33. 25. Dividing the upper and lower limits of a particular class we get

Mark only one oval.

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

34. 26. The graph of a frequency distribution is called

Mark only one oval.

- Polygon
- Cumulative frequency polygon
- Ogive
- Histogram

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. The probability of any event A satisfies

Mark only one oval.

- $P(A) \geq 1$
- $P(A) < 0$
- $0 \leq P(A) \leq 1$
- None of these

37. 29. The probability of throwing an even number with an ordinary six-faced die is

Mark only one oval.

- 1/2
- 1/4
- 2/5
- None of these

38. 30. 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.

- 4/15
- 60/91
- 69/91
- 22/91

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