

Faculty Name: Tejaswini.V.R.

Subject: Computational Mathematics-II

II Sem BCA

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 Unit 4: Central tendency...



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Unit 2: Directed graph.pdf

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Unit 1: Graph theory.pdf

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Computational Mathematics-II

Missed IA [40 Marks] : Answer all the questions:

The name and photo associated with your Google account will be recorded when you upload files and submit this form. Not tejaswinivrpesiams@gmail.com? [Switch account](#)

* Required



Email address *

Your email

Name : *

Your answer

Register No. : *

Your answer

Which of the following statements for a simple graph is correct? *

- Every path is a trail
- Every trail is a path
- Every trail is a path as well as every path is a trail
- Path and trail have no relation

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What is the number of edges present in a complete graph having n vertices? *

- $(n*(n+1))/2$
- $(n*(n-1))/2$
- n
- Information given is insufficient



Which of the following properties does a simple graph not hold? *

- Must be connected
- Must be unweighted
- Must have no loops or multiple edges
- Must have no multiple edges

Which of the following is true? *

- A graph may contain no edges and many vertices
- A graph may contain many edges and no vertices
- A graph may contain no edges and no vertices
- A graph may contain no vertices and many edges

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A graph with all vertices having equal degree is known as a _____ *

- Multi Graph
- Regular Graph
- Simple Graph
- Complete Graph

A graph having an edge from each vertex to every other vertex is called a _____ *

- Tightly Connected
- Strongly Connected
- Weakly Connected
- Loosely Connected

What is the maximum possible number of edges in a directed graph with no self loops having 8 vertices? *

- 28
- 64
- 25
- 56

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What is the maximum number of edges present in a simple directed graph with 7 vertices if there exists no cycles in the graph? *



- 21
- 7
- 6
- 49

What is a full binary tree? *

- Each node has exactly zero or two children
- Each node has exactly two children
- All the leaves are at the same level
- Each node has exactly one or two children

The number of edges from the root to the node is called _____ of the tree. *

- Height
- Depth
- Length
- Width

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Statistics branches include *

- Applied Statistics
- Mathematical Statistics
- Industry Statistics
- Both A and B

The variables whose calculation is done according to the height, length, and weight are categorised as *

- Discrete Variables
- Flowchart Variables
- Measuring Variables
- Continuous Variables

Graphical and numerical methods are specialized process utilized in *

- Education Statistics
- Descriptive Statistics
- Business Statistics
- Social Statistics

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The scale applied in statistics which imparts a difference of magnitude and proportions is considered as *



- Exponential Scale
- Goodness Scale
- Ratio Scale
- Satisfactory Scale

Review of performance appraisal, labour turnover rates, planning of incentives, and training programs and are examples of *

- Statistics in Production
- Statistics in Marketing
- Statistics in Finance
- Statistics in Personnel Management

Any measure indicating the center of a set of data, arranged in an increasing or decreasing order of magnitude, is called a measure of: *

- Skewness
- Symmetry
- Central tendency
- Dispersion

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The measure of central tendency listed below is: *

- The raw score
- The mean
- The range
- Standard deviation

The total of all the observations divided by the number of observations is called: *

- Arithmetic mean
- Geometric mean
- Median
- Harmonic mean

While computing the arithmetic mean of a frequency distribution, the each value of a class is considered equal to: *

- Class mark
- Lower limit
- Upper limit
- Lower class boundary

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20/5/2020
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Change of origin and scale is used for calculation of the: *

- Arithmetic mean
- Geometric mean
- Weighted mean
- Lower and upper quartile

Answer the following questions. Each question carries 5 marks:

Write the answers using sheets. Scan and send the document. *

1. What is graph? Explain different types of graph with example.
2. What is a tree? Explain the properties of tree.
3. Define statistics. Explain the stages of statistical method.
4. If the AM is 52, find the missing frequency.

Marks	0-20	20-40	40-60	60-80	80-100
Students	8	-	19	4	9

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