Question No: 1/15

A graph G is called a if it is a connected acyclic graph?

- 1) Tree
- 2). Not a graph
- 3) Regular graph
- 4) Cyclic graph

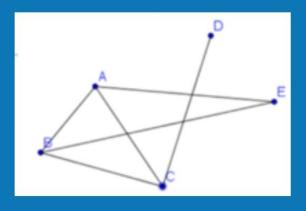
Question No: 2/15

In the Graph Theory, a graph need to have a minimum of ____ nodes and ____ edges.

- 1)1;1
- 2)1;0
- 03)2;2
- 4)2;1

Question No: 3 / 15

Which describes the edges of the graph?



- 1) {A,B}, {A,C}, {A, E}, {B,C}, {B,E}
- 2) {A,B}, {A,C}, {A, E}
- 3) {A,B}, {A,C}, {A, E}, {B,C}, {B,E},{C,D}
 - 4) A, B, C, D, E

Question No: 4/15

If a connected graph G becomes disconnected by deleting only one edge, then that edge is called

- 🖳 1) Trail
- 2) Bridge
- 3) Path
- 4) node

Question No: 5 / 15

The maximum degree of any vertex in a simple graph with n vertices is

- •1)n
- •2)2n-1
- •3)n+1
- 04) n-1

Question No: 6 / 15

What is the degree of vertex D?



-)3
-)2
-)1
-)4

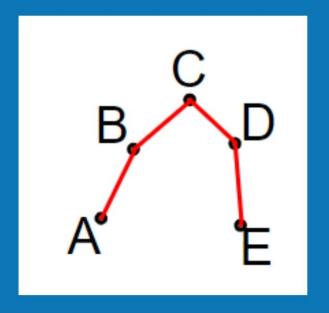
Question No: 7 / 15

If a graph has a number associated with each edge then the graph is called a ...?

- 1) Weighted graph
- 2) Directed Graph
- 3) Network
- 4) Digraph

Question No: 8 / 15

Which vocabulary term describes the graph?



- 1) path
- 2) circuit
- 3) polygon
- 4) complete graph

Question No: 9 / 15

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

- **□**1)n
- 2) (n*(n-1))/2
- 3) (n*(n+1))/2
- 4) n+1

Question No: 10/15

What is the degree of complete graph?

- □ 1) n
- 2) n-1
- **3**)1
- 4)0

Question No: 11/15

A simple graph has no loops. What other property must a simple graph have?

- 1) It must have no multiple edges.
- 2) It must have at least one vertex.
- 3) It must be undirected.
- 4) It must be directed.

Question No: 12/15

If every vertex in G is connected with other vertices then graph is called

- 1) A complete graph
- 2) An empty graph
- 3) A bipartite
- 4) A cycle graph

Question No: 13 / 15

If in a graph multiple edges between the same set of vertices are allowed, it is called?

- 1) Simple graph
- 2) Hamiltonian Graphs
- 3) Euler Graphs
- 4) Multi graph

Question No: 14/15

A graph is a collection of?

- 1) Equations
- 2) Row and columns
- 3) Vertices and edges

Question No: 15 / 15

What is Null Graph?

- 1) null graph has no odd vertex
- 2) null graph has no edges
- 3) null graph has no nodes
- 4) null graph has no even vertex