GRAPH THEORY

Question Bank

Helping Others Have Special taste



Questions

1) the shortest path is considered as the distance between the two vertices				
a) Distance	b) Eccentricity	c) Radius	d) all	
2)The n vertices	naximum distan	ce between a ver	tex to all other	
a) Diameter	b) Eccentricity	c) Radius	d) Distance	
3) The minir	num eccentricit	y from all the ver	tices	
a) Diameter	b) Eccentricity	c) Radius	d) Distance	
4) The max	imum eccentrici	ity from all the ve	ertices	
a) Diameter	b) Eccentricity	c) Radius	d) Distance	
5) If the eccentric	city of a graph is	s equal to its radi	us it is known as	
a) Diameter	b) Distance	c) a,b	d) Central Point	
6) The number of	f edges in the lo	engest cycle of 'G	i' is called	
a) Diameter	Girth	c) Circumference	d) Distance	

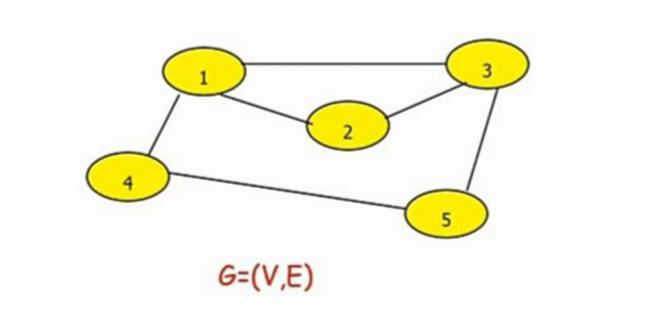


7) The number of edges in the shortest cycle of 'G' is called					
a) Diameter	b) Girth	c) Circumference	d) Distance		
8) written by G = G1 \cup G2, with vertex set V(G1) \cup V(G2) and the edge set $E(G1) \cup E(G2)$.					
a) Union	b) Intersection	c) Ring sum	d) Tree		
9) written by G = G1 ∩G2, with vertex set V(G1)∩V(G2) and the edge set E(G1)∩E(G2).					
a) Union	b) Intersection	c) Ring sum	d) Join		
10) edge set E(G1)⊕E(G2), where ⊕ is the symmetric difference (XOR Operation) of two sets a) Union b) Intersection c) Ring sum d) Join					
,	,		•		
11) G and H is defined as the graph in which every edge of the first graph is adjacent to all vertices of the second graph.					
a) Union	b) Intersection	c) Ring sum	d) Join		
•	ection and ring sum o 2 ∪ G1,G1 ∩G2 = G2 ∩				

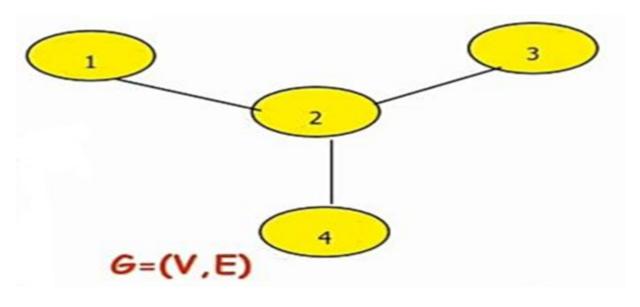


13) If G1 and G2 are edge-disjoint, then G1 \cap G2 is a null graph, and G1 \oplus G2 = G1 \cup G2. (/)

From 14 to 15



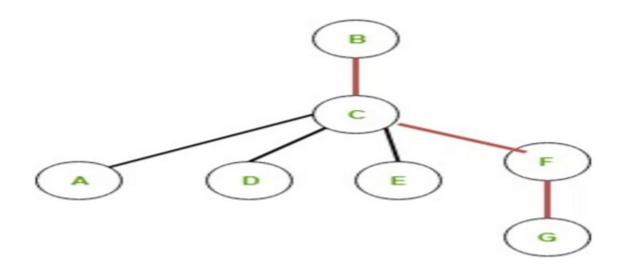
- 14) the distance between vertex (1,5) is
 - a) 1
- b) 2
- c) 3
- d) 4
- 15) the eccentricity of node (3) =



- a) 1
- b) 2
- c) 3
- d) 4



16) the central in graph is node

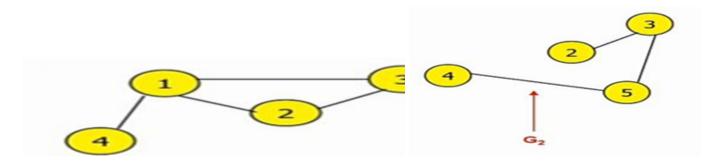


- a) 1
- b) 2
- c) 3
- d) 4

17) the diameter in graph =

- a) 1
- b) 2
- c) 3
- d) 4

from 18 to 23

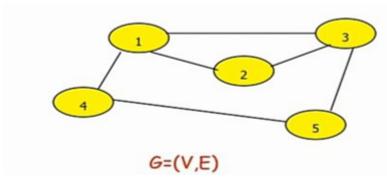


18) number of vertices in union graph =

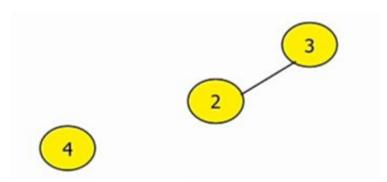
- a) 2
- b)3
- c) 4
- d) 5



- 19) number of edges in union graph =
 - a) 1
- b)5
- c) 6
- d) 7
- 20) number of vertices in intersection graph =
 - a) 2
- b)3
- c) 4
- d) 5
- 21) number of edges in intersection graph =



- a) 1
- b)5
- c) 6
- d) 7
- 22) the union of G1 and G2 is this graph ()



23) the intersection of G1 and G2 is this graph (



Answers

Question	Answer
1	Α
2	В
3	С
4	Α
5	D
6	С
7	В
8	A
9	В
10	С
11	D
12	True
13	True
14	В
15	В
16	В
17	С
18	D
19	С
20	В
21	Α
22	True
23	True