Friday, April 13, 2018, 12:00 AM			
Friday, April 13, 2018, 12:17 AM			
17 mins 29 secs			
<b>60.00</b> out of 60.00 ( <b>100</b> %)			
en the networkx library imported, how can we create a simple, directed graph ect?			
nport networkx as nx			
ect one:			
a.			
nx.DirectedGraph()			
b.			
nx.DiGraph()			
C.			
nx.MultiGraph()			
d.			
nx.DGraph()			
ch of the following is not a basic component of a graph in the context of Network			
allysis?			
ect one:			
ect one: a. edge			
a. edge			

Question 3 Complete	According to Wikipedia, which graph data representation is better for representing sparse graphs efficiently?					
4.00 points out of	Select one:					
4.00	a. Adjacency matrices					
	b. Incidence matrices					
	c. Adjacency lists					
Question 4	Given a constructed graph named "g", how can we find all the neighbors of a node					
Complete	named "nd"?					
4.00 points out of 4.00	(Assume node is in the graph)					
	import networkx as nx					
	Colort ana					
	Select one:  a.					
	nx.neighbors(nd)					
	Tix. Tic Egribor 3 (Tid)					
	b.					
	g.neighbors(node)					
	O C.					
	nx.neighbors(node)					
	<ul><li>d.</li></ul>					
	g.neighbors(nd)					
	grinergine of citary					
Question 5	Within the networkx library, what are four major types of graphs?					
Complete	Select one:					
4.00 points out of 4.00	a. Adjacency list, Incidence matrix, Adjacency matrix, MultiGraph					
4.00	b. Graph(basic undirected graph), Digraph, MultiGraph, MultiDiGraph					
	c. Graph, Digraph, Adjacency Graph, Incidence Graph					

Question 6 Complete	Complete the following sentence by choosing a combination of words in the correct order:						
4.00 points out of 4.00	A complete graph has a density of and isolated graph has a density of  Select one:						
4.00							
	<ul><li>a. 0; 1</li><li>b. 1; 1</li><li>c. 0; 0</li></ul>						
	<ul><li>d. 1; 0</li></ul>						
Question 7	According to wikinedia, which of the following sentences hest describes a complete						
Complete	According to wikipedia, which of the following sentences best describes a complete graph?						
4.00 points out of 4.00	Select one:						
	a. A simple undirected graph in which every pair of distinct vertices is connected by a unique edge.						
	<ul> <li>b. A simple directed graph in which every pair of distinct vertices is not connected by a unique edge.</li> <li>c. A simple directed graph in which every pair of distinct vertices is connected by a unique edge.</li> </ul>						
							<ul> <li>d. A simple undirected graph in which every pair of distinct vertices is not connected by a unique edge.</li> </ul>
	Question 8	Two poople who are friends, college algormates, and so workers have					
Complete	Two people who are friends, college classmates, and co-workers have a multiplexity of						
4.00 points out of	Colort and						
4.00	Select one:  a. 2						
	b. 6						
	<ul><li>c. 3</li><li>d. 1</li></ul>						

Question 9	Which of the following statements is true about nodes on the periphery of a network?					
Complete	Soloat one:					
4.00 points out of	Select one:  a. Peripheral nodes have high centrality scores for this network.  b. Peripheral nodes are not important for all networks.					
4.00						
	c. Peripheral nodes are not good sources of fresh information for this network.					
	d. Peripheral nodes are connected to networks that are not currently mapped.					
Question 10 Complete	Given one or more graphs, what operations can be performed as supported by the networkx library?					
4.00 points out of						
4.00	Select one or more:					
	a. union					
	✓ b. compose					
	✓ c. complement					
	✓ d. disjoint_union					
Question 11 Complete 4.00 points out of	Which of the following sentences best describes a cycle graph?  Select one:					
4.00	a. It is a planar undirected graph with 2n+1vertices and 3n edges.					
	b. Some number of vertices of the graph are connected in a closed chain.					
	<ul> <li>c. It is a simple undirected graph in which every pair of distinct vertices is connected by a unique edge.</li> </ul>					
	<ul> <li>d. It is a special kind of graph where every vertex of the first set is connected to every vertex of the second set.</li> </ul>					
40						
Question 12 Complete	Which of the following metrics for social network analysis is a measure of likelihood that two associates of a node are associates?					
4.00 points out of	Select one:					
4.00	Select one:  a. Clique coefficient					
	b. Distance					
	c. Clustering cohesion					
	d. Clustering coefficient					

Question 13	Given a graph named "g", how can we find all cliques in this graph?					
Complete 4.00 points out of	import networkx as nx					
4.00	Select one:  a.  g.all_cliques()					
	<pre>b. nx.cliques(g)</pre>					
	• c. nx.find_cliques(g)					
	<pre>d. g.find_cliques()</pre>					
Question 14 Complete	On a social network graph, which kind of nodes are good to monitor the information flow in the network or visualize what is happening in the network?					
4.00 points out of 4.00	Select one:  a. central nodes					
	b. nodes with the shortest paths to all others					
	c. nodes between important constituencies					
	d. nodes with more connections					
Question 15 Complete	To iterate all possible pairs in a given list or set, which iterator in the itertools library can we use?					
4.00 points out of 4.00	Select one:  a. chain()					
	b. combinations()					
	c. groupby()					
	d. pairs()					