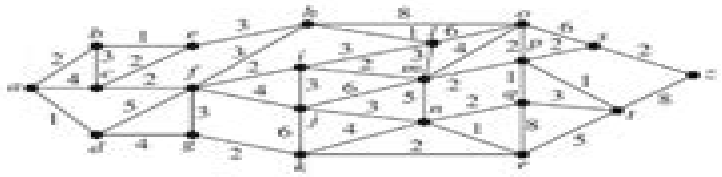
UNIVERSSITY OF TECHNOLOGY FACULTY OF CSE	FINAL EXAM	Semester / Academic year	1	2021-2022
		Date		21/12/2022
	Course title	Discrete Structure for Computing		
	Course ID	CO1007		
	Duration	90 mins	Question sheet code	2215

Notes: - Student does not use course materials except one A4 (single side) hand-writing document.
- Submit the question sheet together with the answer sheet.
- Choose the best answer (only 1) for each question.

I. Multiple choices (10.0p):

1. [L.O.2.3] Find the shortest distance from a to z on the network below.



(a) The shortest distance is 16
(b) The shortest distance is 18
(c) The shortest distance is 20
(d) The shortest distance is 14

2. [L.O.1.2] The mathematics department has six committees, each meeting once a month. How many different meeting times must be used to ensure that no member is scheduled to attend two meetings at the same time if the committees are C_1 = {*Artinghaus, Brand, Zaslavsky*}, C_2 = {*Brand, Lee, Rosen*}, C_3 = {*Artinghaus, Rosen, Zaslavsky*}, C_4 = {*Lee, Rosen, Zaslavsky*}, C_5 = {*Artinghaus, Brand*}, and C_6 = {*Brand, Rosen, Zaslavsky*}?

(a) 3
(b) 4
(c) 5
(d) 6

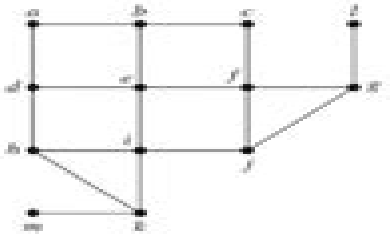
3. [L.O.4.1] Consider a wheel graph $W_n = (V; E)$, with a center v_0, and with adjacency matrix A. In your opinion, which of the following statements is correct:

(a) W_n has an even number of edges, and every row of A consists of the same number of 1.
(b) W_n has $(n + 1)$ vertices and does not contain a spanning tree.
(c) W_n has $(n + 1)$ vertices and contains an Euler circuit.
(d) W_n contains a spanning tree and the number of edges of W_n is even.

4. [L.O.1.2] Let G be a graph with v vertices and e edges. Let M be the maximum degree of the vertices of G, and let m be the minimum degree of the vertices of G. Which one of the following is TRUE?

(a) $m \leq 3e/v \leq M$
(b) $m \leq 2e/v \leq M$
(c) $m \leq 2e/v \leq M$
(d) $m \leq e/v \leq M$

5. [L.O.1.2] Choose as the root, what is the breath-first (start from c) search of the given the graph G: (assume that the vertices are ordered alphabetically)



(a) c b d f i a c h g j k l m
(b) c d b f i a c h g j k l m
(c) c b d f i a c h g l j k m
(d) None of these answers is correct

6. [L.O.4.2] A certain drug is effective in treating a disease if the concentration remains above 100 mg/L. The initial concentration is 600 mg/L. It is known from laboratory experiments that the drug decays at the rate of 18% of the amount present each hour. Let a_n be the concentration of drug after n hours. The minimum amount of time passed when the drug concentration just becomes ineffective is:

(a) $n = 8$ hours
(b) $n = 9$ hours
(c) $n = 10$ hours
(d) $n = 12$ hours

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Mer Merlyn

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