Unit 2 - Week 0

Assignment 0

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2020-01-27, 23:59 IST.

Note : This assignment is for practice and it will not be graded.

1) Which of the following is not a social networking site: *1 point*

  ○ Google+
  ○ Instagram
  ○ Bing
  ○ Twitter

No, the answer is incorrect.
Score: 0
Accepted Answers:
Bing

2) Social Networking involves communication between _____ ?   *1 point*

  ○ Two computers
  ○ A computer and a router
  ○ A human and a computer
  ○ Two or more people

No, the answer is incorrect.
Score: 0
Accepted Answers:
Two or more people

3) An Internet meme is (Choose the best answer):   *1 point*

  ○ A social networking website
  ○ Any Website
  ○ A computer virus
  ○ Any kind of digital artefact traversing through the Internet, be it an image, audio, video or a file in some other format.

No, the answer is incorrect.
Score: 0
Accepted Answers:
Any kind of digital artefact traversing through the Internet, be it an image, audio, video or a file in some other format.

4) Which of the following is useful in traversing a given graph by breadth first search?   *1 point*

  ○ Set
  ○ List
  ○ Stack
  ○ Queue

No, the answer is incorrect.
Score: 0
Accepted Answers:
Queue

5) What is the maximum number of possible non-zero values in an adjacency matrix of a simple graph with n vertices?   *1 point*

  ○ (n*(n-1))/2
  ○ (n*(n+1))/2
  ○ n*(n-1)
  ○ n*(n+1)

No, the answer is incorrect.
Score: 0
Accepted Answers:
n(n-1)*

6) On which of the following statements does the time complexity of checking if an edge exists between two particular vertices or not depends?   *1 point*

  ○ Depends on the number of edges
  ○ Depends on the number of vertices
  ○ Is independent of both the number of edges and vertices
  ○ It depends on both the number of edges and vertices

No, the answer is incorrect.
Score: 0
Accepted Answers:
Is independent of both the number of edges and vertices

7) Which type of graph has all the vertices of the first set connected to all the vertices of the second set?   *1 point*

  ○ Bipartite
  ○ Complete Bipartite
  ○ Cartesian
  ○ Pie

No, the answer is incorrect.
Score: 0
Accepted Answers:
Complete Bipartite

8) In a complete graph with n nodes, how many different triangles are present?   *1 point*

  ○ 3n
  ○ n^3
  ○ $(n^3-3n^2+2n)/6$
  ○ None of the above

No, the answer is incorrect.
Score: 0
Accepted Answers:
$(n^3-3n^2+2n)/6$

9) In an undirected graph G with n vertices and e edges, the sum of the degrees of each vertex is: *1 point*

  ○ n*e
  ○ 2n
  ○ 2e
  ○ e^n

No, the answer is incorrect.
Score: 0
Accepted Answers:
2e

10) The number of edges in a regular graph of degree d and n vertices is (Assume n and d to be even):   *1 point*

  ○ nd
  ○ (n+d)/2
  ○ (nd)/2
  ○ Maximum of n,d

No, the answer is incorrect.
Score: 0
Accepted Answers:
(nd)/2