

2023

COMPUTER SCIENCE — HONOURS — PRACTICAL

Paper : CC-9P

Full Marks : 30

SET - 4

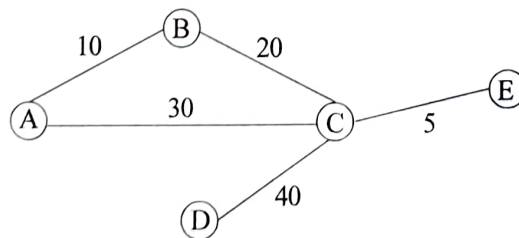
Marks Distribution :

Source Code :	10
Algorithm :	05
Output :	05
Sessional :	04
Viva voce :	06

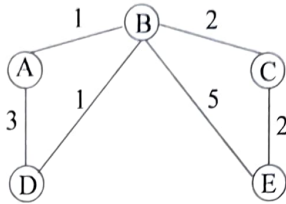
Answer *any one* question.

1. Write a C program to implement DFS algorithm.

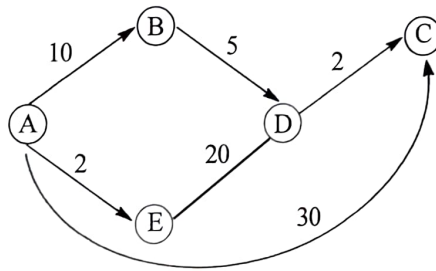
2. Write a C program to generate the adjacency matrix and incidence matrix of the given graph.



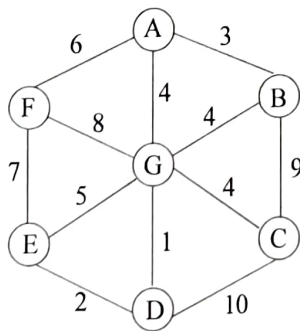
3. Write a C program to find the all pair of shortest distance in the graph given below using Floyd-Warshall algorithm.



4. Write a C program to find the shortest path between the vertices A and C of the below graph using Dijkstra's algorithm.



5. Write a C program to find the minimal spanning tree of the following graph and print the minimum cost (weight) of the tree using Prim's algorithm.



6. Write a C program to find the minimal Spanning tree of the following graph and print the minimum cost (weight) of the tree using Kruskal's algorithm.

