

M. SC. (MATHEMATICS WITH APPLICATIONS IN COMPUTER SCIENCE) [M. SC. (MACS)]

Term-End Practical Examination

June, 2025

MMTE-001(P)(Set-II) : GRAPH THEORY

Time : $1\frac{1}{2}$ Hours Maximum Marks : 40

Note : (i) There are two questions in this paper, totaling 30 marks.

(ii) The remaining 10 marks are for viva-voce.

(iii) All the programs are to be written in C language.

1. Write a program to check whether a given graph is connected or not. Run your program on different graphs. 10

[2]

2. Write a program that stores a weighted graph using adjacency list representation, and prints the weight of any input subgraph of it. 20

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