M.Sc. (MATHEMATICS WITH APPLICATIONS IN COMPUTER SCIENCE) M.Sc. (MACS)

Term-End Practical Examination

June, 2018

00100

MMTE-001(P): GRAPH THEORY

Time: $1\frac{1}{2}$ Hours

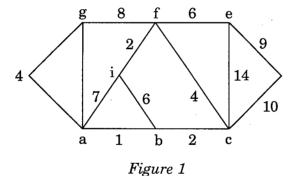
Maximum Marks: 40

Note:

There are two questions in this paper totalling 30 marks. Answer both questions. Remaining 10 marks are for the viva-voce.

1. Write a program in C language that prints the incidence matrix of a graph taking as input the edge set of the graph. Use it to print the incidence matrix of the graph in Figure 1.





2. Write a program that finds the minimal spanning tree for the weighted graph given in Figure 1.

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