MMTE-001 (P)

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

Term-End Practical Examination

June, 2016

MMTE-001 (P) : GRAPH THEORY

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

0450

Maximum Marks : 40

- Note: There is one question in this paper with two parts totalling 30 marks. Remaining 10 marks are for the viva-voce. All the programs are to be written in C-language.
- 1. (a) Represent the following weighted graph 10 using adjacency list :



(b) Apply Dijkstra's algorithm to find the 20 shortest paths from v_1 to all the other vertices.

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