



HEG-003-14810002 Seat No. _____

M. Phil. (Statistics) (Sem. I) (CBCS) Examination

December – 2017

SMT - 1002 : Operations Research

Faculty Code : 003

Subject Code : 14810002

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

[Total Marks :

- Instruction :** (1) Attempt all questions.
(2) Each question carries equal marks.

1 Explain queuing and simulation models.

OR

1 Explain properties of LP model.

2 Explain decision under uncertainty.

OR

2 Explain dual problem of LP model.

3 Explain North-West corner method to solve transportation problem.

OR

3 Explain Vogel's approximation method.

4 Explain Hungarian method with an example.

OR

4 Explain scope of network model.

5 Explain LP formulation of the shortest-route problem.

OR

5 Explain CPM and PERT.