JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

END TERM TEST

SUMMER SEMESTER - JUNE 2016

M.Tech 3rd Semester

COURSE CODE: Modeling Simulation and Computer Application

MAX. MARKS: 50

COURSE NAME: 11M1WCE114

COURSE CREDITS: 03

MAX. TIME: 2 Hrs

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.

Q1.

 $(10 \times 1.5 = 15)$

- a) What are measures of effectiveness?
- b) What is Cost analysis?
- c) What do you mean by System modeling?
- d) How simulation helps in time-to-market industry?
- e) What is the need for system modeling?
- f) Define feedback system & its application.
- g) What is the difference between analytical methods and simulation?
- h) What are discrete probability functions?
- i) Monte Carlo simulation is a special case of stochastic simulation? Comment.
- i) Name any five blocks in GPSS?
- Q2. Explain macro dynamic models in detail.

(6)

Q3. Write short note on Statistical output analysis

(6)

Q4. What is the importance of system design and analysis in the Simulation of a system? (6)