

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

Q1.

(10×1.5=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.
- j) 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)**