Model Paper –II

Examination 2016

BCA III

Paper:-Simulation and Modeling

Time: 3 Hrs   MM:50

I) The Question paper contains 40 multiple choice questions with four choices and student will have to pick the correct one (each carrying ½ mark).

1. The term system is used for
      a. Copying an object   b. Selection of Object
      c. Creation of an Object   d. Aggregation of an object

2. Change in the state of system is known as
      a. Distance traveled by the system   b. Progress of the system
      c. Movement of the system   d. All of these

3. Entities of a system can vary
      a. time to time   b. place to place
      c. Acc to areas of interest   d. According to technique used

4. Exogenous means
      a. Pre decided Activities   b. Activities of internal System
      c. Activities which are random   d. Activities in the environment

5. Physical Model can be classified as
      a. Numerical & Analytical   b. Mathematical & Analytical
      c. Static & Dynamic   d. Numerical & Static

6. Main input to corporate model is:
      a. Investment   b. Labor   c. Machine   d. N.O.T.

7. Pipe analogy is an example of

a. DTSS	b. DESS	c. DEVS	d. N.O.T.

8. Types of simulation are:
   a. Analog　　　　　b. Computer　　　　c. Both　　　　　　d. N.O.T

9. Perception Covers:
   a. Sound　　　　　b. Vision　　　　　c. Both　　　　　　d. N.O.T.

10. Algorithm does not have
   a. logic　　　　　b. English words　　c. Looping　　　　d. A particular Syntax

11. Most popular GPSS is:
   a. ASP　　　　　　b. PHP　　　　　　c. JAVA　　　　　　d. Arena

12. AI means
   a. AIR India　　　b. Artificial Intelligence　c. Both　　　　　　d. N.O.T.

13. Book keeping is:
   a. Phase of Courseware　　　　　　　b. phase of simulation modeling
   c. phase of verification & validation　　d. phase of programming

14. Most popular example of simulation in AI is:
   a. Robotics　　　　b. Modeling　　　　c. Programming　　d. Testing

15. Which of the following is an entity:
   a. Traffic　　　　　b. car　　　　　　c. driving　　　　　d. Speed

16. Simulation means
   a. Algorithm of system　　　　　　　b. Solution of System
   c. Representative model of System　　d. validation of system

17. Modeling process means
   a. Define output　　　　　　　　　　b. Define input
   c. describing the changes　　　　　　d. Characterizing the system

18. Simulation result are:
   a. Exact results　　　　　　　　　　b. Appraisement Results
   c. Appropriate at micro results　　　d. appropriate at macro results

19. TV games are best example of
   a. Simulation　　　　b. Forecasting　　c. Imagination　　d. Artificial Creation

20. SIMAN, SIMSCRIPT, SLAM are:
      a. Computer Language   b. Operating System
      c. DBMS   d. Image Processing Tools

21. A hybrid computer is
      a. Analog computer   b. digital computer
      c. analog cum digital computer   d. desktop computer with analog digital simulation

22. Validation is model part of
      a. System Analysis   b. Experiment Design
      c. Study of simulation component   d. Model building

23. Simulation is needed when
      a. Analytical closed form solutions are available
      b. Analytical series solutions are available
      c. Mathematical model is available
      d. None of above

24. Activity can be defined as:
      a. Physical Exercise   b. Mental Exercise
      c. Process that causes the change   d. Past time

25. Monte Carlo is
      a. A technique for modeling   b. A technique for simulation
      c. A person   d. A company brand

26. Face validity means
      a. A validation technique   b. A mathematical technique
      c. Appearance of model must be reasonable
      d. Appearance of model must be attractive

27. Simulation cannot produce optimum result:
      a. True   b. False

28. Simulation can be used in financial planning
      a. true   b. False

29. Building the right product means
      a. System study   b. Verification   c. Validation   d. N.O.T.

30. Which is not the part of validation process?
      a. Subjective Testing   b. Perspective Testing c. Objective Testing   d. Stastical testing

31. Simulation Software for discrete system is:
     a. SIMSCRIPT   b. Spice   c. Arena   d. Extend

32. Analytical Method produces:
     a. General Solution   b. A Specific Solution   c. Both   d. N.O.T.

33. Real System is first converted to:
     a. Operational Model   b. Conceptual Model
     c. Physical Model   d. Mathematical Model

34. Which of the following is an attribute
     `a. Communications   b. messages   c. Length priority   d. Transmitting

35. A system is represented by:
     a. activity   b. entity   c. model   d. experiment

36. Number of queues that that needs to be processed while simulating the model
     a. 1   b. 2   c. 3   d. 4

37. Returning of a customer after payment will be termed as:
     a. Event   b. activity   c. error   d. N.O.T.

38. A customer faints while shopping this will be taken as
     a. event   b. activity   c. error   d. N.O.T

39. A remote Controlled toy aircraft is an example of
     a. Continuous model   b. Simulation
     c. Dynamic Physical model   d. N.O.T.

40. Probability distribution take part in
     a. discrete event simulation   b. queuing model
     c. stochastic system model   d. All of d above

II) **Attempt any four questions out of six all question carry 7 ½ marks.**

1. Explain discrete and continuous simulation system with example.
2. What is simulation? Explain the purpose, limitation and advantages of simulation.
3. Differentiate Pseudo code and algorithm with example.
4. Construct and explain corporate model.
5. Explain the applications of simulation.
6. What are the principles of modeling? Explain these.