

Model Paper –I Examination 2016 BCA III Paper:-Simulation and Modeling

Time: 3 Hrs

MM:50

/) 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. An object of in	terest in a syste	em is known as		
a. Activity	b. System	c. Entity	d. Attributes	
2. Change in the s	tate of the syste	em is known as		
a. Distance travelled by System			b. Progress of System	
c. Movement of system			d. All of These	
3. Which of the f	following is a s	ystem		
a. Bank			b. Depositing	
c. Customer		d. Bal	ance	
4. Examination held in university is an example of				
a. Event	b. En	tities	c. Attributes	d. Activities
5. System is a set	of			
a. Models	•		c. Interfacing Objects d. Independent	
Objects				
6. Environment is	-			
a. False	b. True	c. Bot	h	d. None
7. Which of the f	following is an	activity		
a. Bank	onowing is an	activity	b. Depositing	
c. Customer			d. Balance	
c. Customer			u. Dalance	

8. Which of the following a. Discrete	ing is not type of s b. Incrementa	-	d. Dynamic		
 9. A model of a buildin a. Physical Model c. Static Physical M 10. First step of modeli 	Model	b. Discrete Sim d. Simulation	b. Discrete Simulation		
a. Defining goalsc. Validate Model		b. Problem Formulationd. Analyze Model			
 Model is a. Diagrammatic R c. Experiment 	epresentation	b. Problem of interestd. Representation of system			
12. Real system is first converted toa. Conceptual Modelc. Physical Model		1	b. Operational Model d. Mathematical Model		
13. Which is the step of modeling Processa. Defining Goalsc. Make Changesb. Characterizing Systemd. All of Above					
 Regular classes hel a. Event 	d in school is an e b. Entities	example of c. Attributes	d. Activities		
15.System have a structure that is defined by its parts and processesa. Trueb. False					
 16. In a communication system, which one is activity a. Message b. Messsage Length c. Transmitting d. Arrival at destination 					
17. In inventory system , what will be the entitya. Warehouseb. Capacityc. Demandd. Withdrawing					
18. Service time of customer in restaurant is an example ofa. Stochastic System b. Deterministic Systemc. Continuous System d. Discrete System					

19. Purpose of simulation model is to understand asystem or modela. Trueb. False						
 20. which one is not the step of simulation process a. Detailed deign b. Problem Formulation c. Experimental Design d. Implemetation 						
21. A queuing model is an example of a. Discrete Simulationb. Continuous Simulationc. Bothd.N.O.T.						
22. Continuous Simulation Problem can be solve a. Geometry b. Trigonometry	ed with the help of c. Differential Equation	d. Algebra				
 23. Continuous System can be defined as a. A system working forever b. Endogenous Activities only c- A good system d. A system in which changes are predominately smooth 						
24. Simulation can be used in financial planning a. True b. False						
25. Advantage of Simulation Technique isa. Free from complicated mathematicsb. Freely available softwared. N.O.T.						
26. Which is not the principal of modeling?a. Redundancyb. Block building c. Relevance d. Accuracy						
27. Which is the part of system studies:						
a. System Analysis b. System Testing	c. System development	d. N.O.T.				
28. A customer faints while shopping this will be taken as						
a. Activity b. Event	c. Entity d. Depends on	customer				
29. Human Body:a. Open Systemb. Closed System	c. Not a system	d. N.O.T.				
30. Simulation can be used for time sharing system						
a. True	b. False					
31. Corporate Model does not containa. Environment Segmentc. Management Segment	b. Production Segment d. Research & design Segme	nt				

32. Random numbers are used in:a. Gambling			b. Forecasting		
c. S	c. Simulation Process		d. Analytical Solution		
	ilding the right prod System Study	duct means: b. Verification	c. Validation	d. N.O.T.	
a. c	system Study	0. vermeation	c. valuation	u. N.O.1.	
	-	f validation process			
	Subjective Testing		b. Perspective Testing		
c. (c. Objective Testing		d. Statistical Testing		
35. Vali	idation of model is	part of			
a. System Analysis			b. Experimental Design		
c. Study of simulation		d. Model Building			
36. Pseu	ido				
a. can be compiled		b. cannot be compiled & execution			
c. Can be executed		d. N.O.T.			
37. Sims	script is based on w	hich language			
a. F	Fortran	b. C	c. Pascal	d. N.O.T.	
38. Sims	cript is				
a. Discrete Simulation Language		b. Continuous Simulation Language			
c. Scripting Language		d. N.O.T.			
39. Days	s & Nights are exar	nple of			
a. Activities on the earth		b. Events on the earth			
c. Entities on the earth		d. exogenous activity on earth			
	of Platform is :				
a. a	ttribute	b. Activity	c. Event	d. N.O.T.	

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

- 1. Define model. What do you understand by system modeling?
- 2. Define System. Explain various characteristics of system.
- 3. Explain discrete simulation language in brief.
- 4. Explain the simulation of time sharing system.
- 5. Describe verification and validation process of modeling.
- 6. Explain how AI techniques are used in the area of simulation & modeling.