[Maximum Marks: 50

Bachelor of Science (B.Sc.I.T.) Semester—I (C.B.S.) Examination SYSTEM ANALYSIS AND DESIGN

Paper—III

Time: Three Hours]

	N.B	.:— (i) All questions are compulsory and carry equal marks.	
		(ii) Draw neat and labelled diagram wherever necessary.	
	EIT	HER	
1.	(a)	Write two most important duties of a system analyst. Describe desirable qualities of a system analyst with regards to :	em
		(i) Personality	
		(ii) Academic background	
		(iii) Technical competence.	5
	(b)	Write benefits and limitations of prototyping.	5
	OR		
	(c)	What is feasibility study? Discuss following four phases to a feasibility study:	
		(i) Organizing for the study	
		(ii) Search for solutions	
		(iii) Feasibility analysis	
		(iv) Choice of a solution.	5
	(d)	What are some of the issues, problems and limitations in the use of interviews ?	5
	EIT	HER	
2.	(a)	Why are data flow diagrams so popular? What are their advantages over other analysis technique	s ? 5
	(b)	Write principles of good output design.	5
	OR		
	(c)	What human factors should be considered during input design to make system more effective	e ? 5
	(d)	What is the role of forms in a computerized information system ? Should forms be tested before	re
		they are implemented? How? By whom? When?	5

EITHER

3.	(a)	Discuss strength and weaknesses of the following conversion methods:	
		(i) Cold turkey	
		(ii) Pilot	
		(iii) Modular	
		(iv) Parallel	
		(v) Sequential.	5
	(b)	List testing tools and discuss any two in brief.	5
	OR		
	(c)	Discuss training methods to provide operational training and related activities.	5
	(d)	Write a short note on system evaluation.	5
	EIT	THER	
4.	(a)	Discuss any two reliability growth models in brief.	5
	(b)	Write short notes on:	
		(i) Risk Assessment	
		(ii) Risk Containment.	5
	OR		
	(c)	Write short note on function point metric. Why function point metric got popularity over metric to estimate project size ?	r LOC 5
	(d)	Discuss process models for software maintenance and explain how an appropriate maintenance would be selected for maintenance project at hand.	enance 5
5.	Atte	empt all:	
	(a)	Draw basic components of a computer system. What role do each of the components Explain.	play ?
	(b)	Explain system tolerance in brief.	21/2
	(c)	Explain conversion period length.	21/2
	(d)	Why the reverse of software components except mathematical software is difficult? Exp	olain.
			21/2