		Level: Bachelor Programme: BCA Course: System Analysis an	Semester: Fall	Year Full Marks Pass Mark Time		
	7	Candidates are required to gas practicable. The figures in the margin in		own words	as far	
1		Attempt all the questions. What are the different	technology drivers of to	day's info	rmation	8
1.	. a)		types of information syste			
	b)	What is Information sys		plain the d		7
2.	a)	What is Capability Mat levels, along with it				8
		Competitiveness.				
	b)	What is methodology? D	ifferentiate between MDI	and RAD		7
3.	a)	Write down symbols use diagram for Bus Ticket R		Draw a U	se Case	8
	b)	What is model driven analysis.		ohases of	decision	7
4.	a)	In which situation JR guidelines of JRP.	P is suitable? Explain	participa	nts and	8
	b)	What is object oriented a	analysis? How it is differ	ent from st	ructured	7
	0,	analysis? Explain with ex				
5.	a)	Write down symbols use an ATM Transaction.	· [1] [1] [1] [1] [1] [1] [1] [1] [1] [1]	an ER dia	gram for	7
	b)	What is data flow diag	ram (DFD)? Draw a co	ntext diag	ram and	8
		Level-1 DFD for a Re	estaurant billing system	. Make y	our own	
		assumption wherever nec				
i.	a)	What do you mean by	a creeping commitment	t? How o	loes cost	8
		benefit analysis can pre Justify.	dict the system econon	nic viabilit	y study?	
	b)	Explain the techniques to	system design for "In-H	Iouse deve	lopment"	7
		Does the "BUY Solution"				

- 7. Write short notes on any two:
 - a) Phases of Project Management life cycle
 - b) Guidelines for conducting Interview
 - c) CASE for Process Modeling

2×5

Semester: Fall

: 2020

Year

Level: Bachelor Full Marks: 100 Programme: BCA Pass Marks: 45 Course: System Analysis and Design Time : 3hrs. Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks. Attempt all the questions. 1. a Identify different types of stakeholders who use or develop 8 information systems, and give examples of each. b) What is Information system building block? Explain the 7 different views of different stakeholder in knowledge building 2. a) The Capability Maturity Model (CMM) is a framework to assess 8 the maturity level of an organization's information system development and management processes and products. Using adiagram describe the five levels of process maturity. What is structured analysis? How it is different from object 7 oriented analysis? Explain with example. 8 a Explain Fact Finding Techniques. Write down symbols used in Use Case diagram. Draw an Use 7 Case diagram for ATM transaction system. Write down symbols used in E-R diagram. Draw an ER diagram 7 for an Examination result system. b) Draw zero level and 1st DFD for "Library Management System". 8 What do you mean by a creeping commitment? How does cost 7 benefit analysis can predict the system economic viability study? Justify. by Define a Creeping Commitment Approach? Explain the four 8 tests for feasibility. 6. a) What is project management? How is task duration estimation 8 done in project management? b) Explain the techniques to system design for "In-House 7 development" Does the "BUY Solution" make better solution to design system?

2×5

7. Write short notes on any two:
a) RAD
b) CASE tool
c) Outsourcing

Semester: Fall

Level: Bachelor

: 2019

Year

Full Marks: 100 Programme: BCA Pass Marks: 45 Course: System Analysis and Design Time : 3hrs. Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks. Attempt all the questions. 1. a) Who is system analyst? Explain various management factors of 7 Information System Development. b) What is an information system? Describe the different building 8 blocks of an information system. 2. a) What is Capability Maturity Model(CMM)? Briefly explain five 8 level of CMM. b) Define Project manager competencies. Explain the causes of failure 7 of projects. 3. a) What is system analysis? Explain different tasks involved in scope 7 definition phases. b) What is prototyping? Explain process and guidelines for conducting 8 JRP. 4. a) What is data modeling? Explain about process of logical data 8 modeling. b) What is a context data flow diagram? What strategies may be 7 implemented to document a system's scope? 5. a) What is feasibility analysis checkpoint? Explain the steps of 5 Administrative Proposal. b) Explain data and process model synchronization with figure. 5 Explain. c) Draw Entity relationship for Library Management System. 5 6. a) Define Creeping Commitment? What are the feasibility analysis 8 checkpoint during system analysis? b) What is system design? Explain the task of In-House development 7 of system Design.

- 7. Write short notes on any two:
 - 2×5
 - a) CASE
 - b) Computer Aided System Engineering
 - c) Project Management Body Of Knowledge(PMBOK)

Year: 2018 Semester: Fall Level: Bachelor Full Marks: 100 Programme: BCA Pass Marks: 45 Course: System Analysis and Design Time: 3hrs. Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks. Attempt all the questions. 1. a) Define information system. Explain Technology drivers' of 8 today's information system b) Explain information system building blocks with neat diagram. 7 2. a) What is methodology? Differentiate between MDD and RAD. 7 8 b) Define and explain about cross life cycle activities. 7 3. a) What is model driven analysis? Explain the phases of decision analysis. b) Define system analysis. Explain various tasks during 8 requirement analysis phase. 4. a) How JRP is conducted? Explain participants and guidelines of 8 JRP. b) What is requirement discovery? Explain various fact finding 7 techniques. 5. a) Define use cases. Explain the process of requirement use case 7 modelling. b) What do you mean by data model? Define entities, attributes and 8 relationship with appropriate ER Diagram and what are characteristics of good data model? 6. a) Construct level-1 DFD for Hospital Management System. 8 b) What is feasibility analysis? Explain various types of feasibility analysis performed during project Development. Write short notes on any two: 2×5 a) Rapid application Development (RAD) b) Phases of Project Management life cycle c) Tasks of in house Development

	Level: Bachelor Semester – Fall Year : 2017 Programme: BCA Course: System Analysis and Design Year : 2017 Full Marks: 100 Pass Marks: 45 Time : 3hrs.	
	Candidates are required to give their answers in their own words as far as practicable.	
	The figures in the margin indicate full marks.	
	Attempt all the questions.	
1.	a) Define a system. Explain about different phase of System development Life Cycle.	7
	b) What is an information system? Describe the different building blocks of an information system.	8
2.	a) What do you mean by the Capability Maturity Model? Explain the different levels of Capability Maturity Model.	7
	b) Explain about alternative route and strategies for information system development.	8
3.	a) What is system analysis? Describe the accelerated approach of system analysis.	7
	b) Explain the importance of requirement discovery. What are the different fact finding techniques?	8
4.	 Explain use case modeling. List out the different elements of a use case diagram. 	7
ŀ	b) What is data modeling? Explain about process of logical data modeling.	8
5. a	What is a context data flow diagram? What strategies may be implemented to document a system's scope?	7
b	What is feasibility analysis and when it can be done? List out and explain the six test of feasibility.	8
6. a)	Explain the different tasks involved in the "in-house" system design process.	7
b)	HEAD IN HEAD NOTE OF CONTROL OF A	8
7. W	a) CRUD Matrix	2×5
	b) Return on investmentc) CASE tools	

7.

Semester: Fall

Year: 2016

Level: Bachelor

Programme: BCA Full Marks: 100 Course: System Analysis and Design Pass Marks: 45 Time: 3hrs. Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks. Attempt all the questions. Who is System Analyst? What are the skills that must be 1. needed for System Analyst during System Analysis and Design? 7 What is the Product Information System? Explain each in b) detail with your own view. a) Why feasibility analysis is needed? What is the difference 2. 8 between MDD and RAD strategy? b) Why project management is needed? Explain the project 7 management life cycle. a) What is the Hypothetical analysis? Define Business process 3. 8 Redesign (BPR) and how is preliminary investigation checkpoint use for system analysis? b) What do you mean by Brain drain? Explain various types of 7 fact finding techniques in brief. a) Define use cases. Write the benefits of use case modeling. 4. b) Define data modeling. Draw a ER Diagram for Library 8 Management System. a) Mention the benefits of using automated CASE tool in system 5. 7 development. Draw Data Flow Diagram (DFD 1) for the Hospital management system? b) What is the role of proposal in system development? Explain 8 the guidelines that must be followed while developing written