

Comilla University

Department of Computer Science and Engineering

2nd Year 2nd Semester Final Examination-2019 (Session: 2017 – 2018)

de: CSE-2203 Course Name: System Analysis and Design

Course Code: CSE-2203

Full Marks: 60

Time: 3 Hrs.

Answer any five (5) from the following questions. Figures to the right indicate full marks.

Х.	a)	What are the purposes of using System Development Life Cycle (SDLC)? Illustrate phases o SDLC by considering a problem domain of interest.	f 6	5
	b)	List the major activities of requirement determination. Anti, Inas, Species	2	2
	(عر	What are the problems of beginning design without the proper analysis?	4	1
1 ?	a)	What design methodologies are used in system design? Explain.	5	
	b)	What are the advantages of top down design? Elaborate.	3	6
	c)	What criteria are required for software selection? Discuss.	4	
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<i>3</i> .	a)	Discuss the concept of MIS and DSS. How are they related and how do they differ?	4	0
	p)	Compare structured interview with unstructured interviews. Describe stages of whole interviewing process.	4	8
	c)	Describe stages of whole filter viewing process.	7	
X	(a)	Discuss briefly the net benefit analysis and present value analysis.	6	
/	b)	Explain the concept of Direct or Indirect costs and benefits.	4	
	b)	What is the present value of \$ 1250 invested at 10 percent interest at the end of fifth year?	2	
% .	a)	What is key attribute? Explain different types of keys those are used in databases.	4	
	b)	Show the basic components of Entity-Relationship diagram. Draw a E-R diagram for "Hospital	6	10
	- \	Management System" Differentiate between strong and weak entity set by considering a suitable example.	2	
	c)	Differentiate between strong and weak entity set by considering a suitable example.	2	
6.	a)	Elaborately discuss various factors those affecting system complexity.	4	
٦.	b)	What are the advantages of DFD? Describe the basic elements of DFD. Differentiate between	4	9
		physical DFD and logical DFD. Describe a DFD for "Mess Management System".		
	c)	Mention the benefits of JAD session. Briefly explain the phases of Joint Application Development	4	
		(JAD) session.		
7	1	Differentiate between object and class. Demonstrate all components of a class diagram by	6	
7.	a)	considering a model for a customer order from a retail catalog.	U	
	b)	Briefly discuss (i) stages of system testing and (ii) rules for system testing.	6 .	
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,8X		Write short notes on the following terms:	12	
/	1.	i. Feasibility study ii. Open System iii. Alpha testing iv. Unstructured maintenance	1 .	
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