No. of Printed Pages: 2

MCS-014

MCA (Revised) / BCA (Revised) Term-End Examination December, 2022

MCS-014: SYSTEMS ANALYSIS AND DESIGN

Time: 3 hours Maximum Marks: 100

(Weightage : 75%)

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Note: Question no. 1 is compulsory. Attempt any three questions from the rest.

- 1. (a) What is a software system? Define SDLC.

 Should development of information system
 be considered as capital investment?

 Justify your answer.

 10
 - (b) List and explain any two object-oriented CASE tools, with the help of suitable examples.
 - (c) What is a Form? How are forms designed?
 Briefly explain the criteria for form design.
 - (d) Explain why design principles are necessary for efficient software design.
 Differentiate between Top-down design and Bottom-up approach of software design.

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(b) What is software maintenance? Explain adaptive maintenance and preventive maintenance, with examples. (a) Explain ER Modelling, with an example Also describe how ER Model is helpful in Database design. (b) What is a Data Dictionary? Create a Data Dictionary for an "Online Shopping System". Make necessary assumptions. (a) Prepare ordine of SRS for an "Online Shopping System". Make necessary assumptions. (b) What is an Expert System? What are its features? Explain the advantages and disadvantages of Expert Systems. (b) Write short notes on the following: (c) Transaction Processing System (d) Quality of Software	2.	(a)	Why is proper system analysis important for successful system development? Briefly explain the role of a system analyst in the overall system development.	10
Also describe how ER Model is helpful in Database design. (b) What is a Data Dictionary? Create a Data Dictionary for the "Online Shopping System". Make processary assumptions. 10 4. (a) Prepare ordine of SRS for an "Online Shopping System". Make necessary assumptions. 10 (b) What is an Expert System? What are its features? Explain the advantages and disadvantages of Expert Systems. 10 5. Write short notes on the following: (a) Information Security (b) Data Flow Diagram (c) Transaction Processing System		(b)	adaptive maintenance and preventive	10
Dictionary for an "Online Shopping System". Make necessary assumptions. 10 4. (a) Prepare outline of SRS for an "Online Shopping System". Make necessary assumptions. 10 (b) What is an Expert System? What are its features? Explain the advantages and disadvantages of Expert Systems. 10 5. Write short notes on the following: 4×5=20 (a) Information Security (b) Data Flow Diagram (c) Transaction Processing System	3.	(a)	Also describe how ER Model is helpful in	10
Shopping System". Make necessary assumptions. 10 (b) What is an Expert System? What are its features? Explain the advantages and disadvantages of Expert Systems. 10 5. Write short notes on the following: $4 \times 5 = 20$ (a) Information Security (b) Data Flow Diagram (c) Transaction Processing System		(b)	Dictionary for "Online Shopping	10
features? Explain the advantages and disadvantages of Expert Systems. 10 5. Write short notes on the following: $4 \times 5 = 20$ (a) Information Security (b) Data Flow Diagram (c) Transaction Processing System	4.	(a)	Shopping System". Make necessary	10
 (a) Information Security (b) Data Flow Diagram (c) Transaction Processing System 		(b)	features? Explain the advantages and	10
(b) Data Flow Diagram(c) Transaction Processing System	5.	Write	e short notes on the following : 4×5	=20
(c) Transaction Processing System		(a)	Information Security	
5.		(b)	Data Flow Diagram	
(d) Quality of Software		(c)	Transaction Processing System	
		(d)	Quality of Software	