2020

DATABASE MANAGEMENT SYSTEM AND SYSTEM ANALYSIS AND DESIGN — GENERAL

Paper: DSE-5.2 eB Full Marks: 80

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Module - I

(Database Management System)

Answer any four questions.

1.	(a) What is database management system?	
	(b) Discuss the advantages of database management system.	3+7
2.	Explain network data model with example.	10
3.	Write short notes on:	
	(a) Data Manipulation Language	
	(b) Data Control Language.	5+5
4.	(a) What is BCNF?	
	(b) Distinguish between BCNF and 2NF.	3+7
5.	Write short notes on:	5+5
	(a) Single level indexing	
	(b) Clustering indexing.	
6.	(a) Mention the important advantages of SQL.	
	(b) Write a note on embedded SQL.	5+5
7.	Draw the ER diagram for a school. The entities involved are:	
	(a) School Name	
	(b) Headmaster / Headmistress / Principal	
	(c) Students (d) Streams.	
	More entities can be added but all these entities must be present compulsorily.	10
		Please Turn Over

R(5th Sm.)-Database Mgmt. Syst. & Syst. Analysis & Design-G/DSE-5.2eB/CBCS (2)		
8.	Write short notes on:	5+5
	(a) Data abstraction (b) Query optimization in SQL.	
	Module – II	
	(System Analysis and Design)	
	Answer any four questions.	
9.	Explain the Spiral System Development Model.	10
10.	Explain two important phases in System Development.	5+5
11.	What is regression testing? Explain the advantages of regression testing.	3+7
12.	Write short notes on:	
	(a) Decision table (b) Structured chart.	5+5
13.	Explain the physical and logical data flow diagrams.	5+5
14.	What is system? Explain the major steps involved in system development method.	3+7
15.	Explain the following terms:	5+5
	(a) Documentation	
	(b) Database design.	
16.	Write short notes on:	5+5

(a) Test case generation(b) User Interface design.