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
		D.I	Tr.	•

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.			

5+5

16. Write short notes on:

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