

III Semester B.A./B.Sc. Examination, April/May 2021 (CBCS) (F+R) (2015 – 16 and Onwards) COMPUTER SCIENCE – III

Database Management System and Software Engineering

Time: 3 Hours Max. Marks: 70

Instruction: Answer all Sections.

SECTION - A

		17) a) Exalar arderov and aroun-value with syntax and example.
1. <i>A</i>	۱ns	wer any ten questions. Each question carries 2 marks. (10×2=20)
	1)	Define DBMS. Give any two examples of DBMS software.
2	2)	What is an entity ? Give an example.
	3)	What is schema and instance?
Č	4)	What is primary key? Give an example.
1	5)	List the data types allowed in SQL.
Ĉ	6)	Differentiate between SQL and PL/SQL.
ð.	7)	List out four software myths.
	8)	What are the characteristics of software ?
	9)	Define software engineering.
10	0)	What is feasibility study?
1	1)	What is Test Plan?
1:	2)	Define project management.
		SECTION – B
I. A	ns	wer any five questions. Each question carries ten marks. (5×10=50)

. Ans	swe	er any five questions. Each question carries ten marks.	(5×10=	50)
13)	a)	Describe the characteristics of DBMS.		5
	b)	What is DBA? Explain the roles and responsibilities of DBA.		5
14)	a)	Explain three-level architecture of DBMS with a neat diagram.		5
	b)	What is data independence? Explain two types of data independence	ence.	5



1	15)	a)	What is data model? Explain network model and relational model with example.	5
		b)	What is an attribute? Explain different types of attributes with example.	5
1	6)		What is normalization? Explain 1NF and 2NF with example. What is Join? Explain the types of Joins in relational algebra.	5 5
1	7)		Explain order-by and group-by clause with syntax and example. What is SDLC? Explain different phases of SDLC.	5
1	8)		What is software product? Explain two types of software products. Explain spiral model.	5
1	9)		Differentiate between verification and validation. Describe design principles.	5
2	0)		What is software testing? Describe different types of testing. Write a note on software maintenance.	5

by What is DBA? Explain the roles and responsibilities of DBA

14), a) Explain three-level circlintecture of DBMS with a neat diagram.

b) What is data independence? Explain two types of data independence.