

III Semester B.A./B.Sc. Examination, Nov./Dec. 2016 (CBCS) (Fresh + Repeater) (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

- Answer any 10 questions. Each question carries 2 marks:
 - 1) What is DBMS? Mention the functions of DBMS.
 - 2) Define DML. Mention the different operations of DML.
 - 3) Write a note on DBMS interface.
 - 4) What is normalisation? What are the different types of normal forms.
 - 5) What is join in SQL? Mention the different types of joins.
 - 6 Explain the ALTER command in SQL.
 - What is an ER-diagram? What are the different notation used to construct ER-diagram.
 - 8) Define Software engineering.
 - 9) What is software myths? Mention the classification of software myths.
 - 10) What is Agile development?
 - 11) What is meant by design pattern?
 - 12) Define DFD. Mention the different notation used in DFD.

SECTION - B

II. Answer any 5 of the following questions: (5×10=50)
18) a) Explain the characteristics of database approach.
b) Discuss about various people involved in DBMS.
5

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14	ra)	What is data independence? Explain the types of data independence.	4
	b)	Explain the database system environment and its components with a neat diagram.	6
19)	a)	Explain various types of attributes with example.	5
	b)	Explain SELECT and PROJECT operation in relational algebra with example.	5
1,67	a)	What is SQL? Explain DDL commands with an example.	5
	b)	Explain the aggregate functions in SQL with an example	5
12)	a)	Explain waterfall model.	5
	b)	Explain the attributes of a good software.	5
187	a)	What is a software process ? Explain Incremental process model.	5
	b)	What is EXTREME programming? Explain the XP value.	5
19)	a)	What is SRS ? Explain the requirement's engineering process.	6
		What is a behavioral model? Mention the steps to create a behavioral model.	4
20)	a)	What is software quality? Explain the different quality factors.	5
	b)	Define software testing. Explain the different types of testing.	5