

IV Semester B.A./B.Sc. Examination, May/June 2018 (A) (Repeaters) (2014-15 Only) COMPUTER SCIENCE - IV Software Engineering and Database Systems

Time: 3 Hours

Max. Marks: 70

Instruction : Answer all the Sections.

SECTION - And amount of the allent (direct)

I. Answer any ten question. Each question carries two marks. (10×2=20)

- 1) Mention any two functions of DBMS.
- 2) What is a catalog? The enter store more provided to see an orelegative
- 3) What is data redundancy?
- 4) Define DML.
- 5) What are ER diagrams?
- 6) What is normalization?
- 7) When can null values be used in tuples?
- 8) What is software engineering?
- 9) What is a data flow diagram?
- 10) What is agility?
- 11) Define a data model.
- 12) What is validation?

SECTION - B

II. Answer all the questions. Each question carries ten marks.

(5×10=50)

a) Explaid waterrall model

- 13) a) Who is a database administrator? What are his responsibilities?
 - b) Explain different categories of users of DBMS. (5+5)

- a) Write a short note on three schema architecture.
- b) Explain:
 - i) Primary key
 - ii) Foreign key
 - iii) Entity
 - iv) Attributes
 - v) Relationship.

(5+5)

P.T.O.

14)	a) Explain : i) Hierarchical data model ii) Network data model. OR	10
	a) Explain the different relational algebra set operations.b) Explain second normal form.	(5+5)
15)	a) What is an SQL? Write any five features of SQL. b) What is the difference between DROP and DELETE command? OR	(5+5)
	a) Explain the use of following commands using suitable examples: i) GRANT and REVOKE ii) COMMIT and ROLLBACK.	
16)	a) Write a short note on software myths. b) What is a process flow? Explain different types of process flow usin diagram. OR	g (5+5)
	a) Explain waterfall model. b) Write short note on extreme programming.	(5+5)
17)	a) How do we assess the quality of a software design? b) Explain coupling. OR	üzel (
	a) What is use case ? How are they developed ? b) What is software quality ? Explain McCall's quality factors.	(5+5)