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

Time: 3 Hours Max. Marks: 70

Instruction: Answer all the Sections.

## DE TO SECTION - A TREMIN S' LOR DE ALBERT (C

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?
- 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)

13) a) Who is a database administrator? What are his responsibilities?

b) Explain different categories of users of DBMS. (5+5)

#### OR

- 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)

## 14) a) Explain: March asstrationary as Lat. 2. Engine 2. W. i) Hierarchical data model ii) Network data model. 10 OR a) Explain the different relational algebra set operations. b) Explain second normal form. (5+5)a) What is an SQL? Write any five features of SQL. 15) b) What is the difference between DROP and DELETE command? (5+5) OR 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 using diagram. OR a) Explain waterfall model. b) Write short note on extreme programming. debom stable enter (5+5) a) How do we assess the quality of a software design? 17) (5+5)b) Explain coupling. OR IN THE SEMISOR ROUSE OF THE PROBLEM OF THE PROBL a) What is use case? How are they developed? b) What is software quality? Explain McCall's quality factors. (5+5)