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(Printed Pages 3)

Roll. No. _____

S-762

B.Sc. (Part-III) Examination, 2015
Introduction to DBMS-SQL & Software
Engineering Concept
Paper-III
(BCS-303)

Time Allowed : Three Hours] [Maximum Marks : 75

Note : Attempt five questions in all. Question
No.1 is compulsory. Attempt one ques-
tion from each of the four Units.

1. Explain following in brief:
 - (a) ACID properties 3
 - (b) Explain Wear-out failure in software. 3
 - (c) Architecture of database 3
 - (d) Waterfall model 3
 - (e) DDL 3

P.T.O.

(2)

- (f) VIEWS with example 3
- (g) White and black box software testing 3
- (h) Foreign key & composite key 3
- (i) COUNT with example 3
- (j) Difference between in DFD & ERD. 4

Unit-I

- 2. Write short notes
 - (a) Database recovery 4
 - (b) Data Independence 3
 - (c) Identifiers for Relations 3
- 3. (a) What are the functions performed by the storage manager and transaction manager. 3
- (b) Explain the concept of database and define the components of DBMS. 8

Unit-II

- 4. (a) Explain ERD with its Components. 7
- (b) Explain Strong entities and Weak entities with example. 4

(3)

- 5. Short notes on:
 - (a) Generalisation 3
 - (b) Specialisation 3
 - (c) Primary Key and Candidate Key 4

Unit-III

- 6. Define the different software process Model, which one is best and why? 11
- 7. Explain the Software Requirements with its different types. 11

Unit-IV

- 8. Explain the following:
 - (i) Varification. 3
 - (ii) Validation. 3
 - (iii) Integration. 3
 - (iv) Importance of testing 2
- 9. Explain in brief:
 - (a) Cost estimation Technique & its types. 8
 - (b) Algorithmic Cost Modeling. 3