AQ–942

M.Sc. (Part—I) Semester—II Examination

(CBCS Scheme)

COMPUTER SOFTWARE

Paper—VII

(RDBMS)

Time—Three Hours] [Maximum Marks—80

Note :— (1) **ALL** questions are compulsory.

(2) Due credit will be given to neatness and adequate dimensions.

(3) Assume suitable data wherever necessary.

1. (a) Explain the working of file oriented system with limitation of traditional file system. 8

(b) Explain the following terms :

(i) Aggregation

(ii) Generalization. 8

OR

2. (a) Describe hierarchical and network model systems. 8

(b) Explain conceptual database design. 8

3. (a) Explain the following operations :
   (i) Select
   (ii) Division. 8
   (b) Explain 3NF with suitable example. 8

OR

4. (a) What is a data model ? Explain the relational data model. 8
   (b) What is subquery ? Explain correlated subqueries with suitable example. 8
5. (a) State and explain different techniques that are used to form connectivity with VB to a client server architecture. 8
   (b) Explain the procedure of manipulating data on the server. 8

OR

6. (a) Explain :
   (i) Data control in VB
   (ii) DAO. 8
   (b) What is the role of visual basic while developing a client application. 8
7. (a) Explain the structure and working of balanced tree indexing. 8
   (b) Explain the following terms :
   (i) Storage media
   (ii) Ordered indexing. 8

OR

8. (a) What are the different techniques used to access a data ? Explain. 8
   (b) What is query optimization ? Explain. 8
9. (a) What is DDS ? Explain DDS model. 8
   (b) Explain the following terms :
   (i) Horizontal fragmentation
   (ii) Vertical fragmentation. 8

OR

10. (a) What is DBA ? Explain the functions and goals of DBA. 8
    (b) Explain database recovery in DDS. 8