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.

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8

(b) Explain conceptual database design.

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(Contd.)

(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	3.	(a)	Explain the following operations:				
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(ii) Ordered indexing. 8		(b)	Explain the following terms:				
(II) Oldered macking.			(i) Storage media				
ΛP			(ii) Ordered indexing.	8			
OK.							

8.	(a)	What are the different techniques used to accar a data? Explain.	cess 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 a of DBA.	goals 8		
	(b)	Explain database recovery in DDS.	8		