

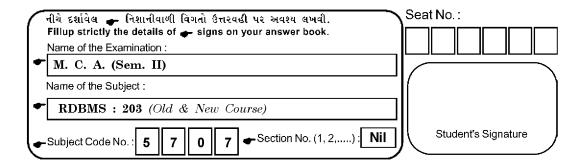
DPP-5707

M. C. A. (Sem. II) Examination March / April - 2016

RDBMS : 203

(Old & New Course)

Time: 3 Hours] [Total Marks: 70 Instruction:



1 Attempt any 3:

18

- (a) Define primary index and secondary index. Give proper example and explain secondary index where search key is non-candidate key.
- (b) Explain static hashing. Discuss its advantages and limitations.
- (c) Write a brief note on different RAID levels.
- (d) Explain sequential file organization.

2 Attempt any 3:

18

- (a) Explain transaction server in Client Server Architecture.
- (b) Explain shadow paging for database recovery. List any two benefits and limitation of shadow paging compare to log based recovery.
- (c) What is Checkpoint ? How it is used in database recovery ?
- (d) Compare centralized systems and client server systems with pros and cons of both.

DPP-5707] 1 [Contd...

3	Attempt any 3:		18
	(a)	Explain basic steps in query processing.	
	(b)	Explain two phase locking protocol.	
	(c)	Explain hash-join and merge-sort join.	
	(d)	Discuss conflict serializability giving appropriate	
		example.	

4 Differentiate followings: (any 4)

(a) Shared and excusive lock

(b) Sparse and dense index

(c) Authetication and Authorization

(d) Serial schedule and non-serial schedule

Speedup and scale up for parallel systems.

(e)

DPP-5707] 2 [200]