



DPP-5707

M. C. A. (Sem. II) Examination

March / April - 2016

RDBMS : 203

(Old & New Course)

Time : 3 Hours]

[Total Marks : 70

Instruction :

नीचे दशांशके निशानीवाणी विगतो उत्तरवडी पर अवश्य लखवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
☛ M. C. A. (Sem. II)	<input type="text"/>
Name of the Subject :	<input type="text"/>
☛ RDBMS : 203 (Old & New Course)	<input type="text"/>
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	Student's Signature

1 Attempt any 3 : 18

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

2 Attempt any 3 : 18

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

- 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) **16**
- (a) Shared and exclusive lock
 - (b) Sparse and dense index
 - (c) Authentication and Authorization
 - (d) Serial schedule and non-serial schedule
 - (e) Speedup and scale up for parallel systems.
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