Rol	I No. Tot	al No. of Pages : 02
	al No. of Questions : 09	3
	MCA (Sem2 nd)	
F	RELATIONAL DATABASE MANAGEM	MENT SYSTEM
	Subject Code: MCA-202 (2012	Batch)
	Paper ID : [B0134]	
Tim	ie: 3 Hrs.	Max. Marks :100
INS	TRUCTION TO CANDIDATES :	
1.	SECTIONS-A, B, C & D contains TWO que TWENTY marks each and students has to atte from each SECTION.	
2. 3.	SECTION-E is COMPULSORY carrying TWENTY Use of non-programmable scientific calculator is	
	SECTION-A	
s various functions an	d services of DBMS.	(20)
2.	Explain the following:	
	(a) Physical and logical data independence	
	(b) Strong and Week entities in ER Diagram	(20)
	SECTION-B	
3.	What is normalization? What are its objectives? forms by taking suitable examples.	Discuss various normal (20)
4.	Write notes on the following:	
	(a) Two Phase Locking	
	(b) Database Recovery Management	(20)
	SECTION-C	
5.	What is Distributed Database Management Syst	tem? How it is different

from centralized DBMS? Discuss various functions and services of distributed

(20)

databases.

- 6. Explain the following:
 - (a) Features of Distributed Database Transaction
 - (b) Client Server Architecture (20)

SECTION-D

- 7. (a) What are various properties of DSS Database? Discuss its importance in business intelligence
 - (b) Explain how operational data is different from decision support data. (20)
- 8. What is OLAP? Explain the characteristic features of MOLAP and ROLAP. (20)

SECTION-E

- 9. (i) Define attribute. What are its different types?
- ject Oriented and Object Relational Databases.
 - (iii) What is dirty read problem? Explain with an example.
 - (iv) What is a functional and multivalued dependency? Explain with an example.
 - (v) What is an optimistic concurrency control method? Explain.
 - (vi) What is entity integrity rule?
 - (vii) What is fragmentation and replication in distributed databases?
 - (viii) What are SPSD and MPSD?
 - (ix) What are various characteristics of star schema?
 - (x) List any five database administration tools.