Total No. of Questions : 20 Roll No. :	Total No. of Pages: 03
1C8114	
MCA I-Sem. (Main/Back) Exam 2024	
MCA-105 / Database Systems	
Time: 3 Hours	Maximum Marks : 70
	Min. Passing Marks: 28
Instructions to Candidates:	
Attempt all ten questions from Part-A. All three questions out of five questions from Schematic diagrams must be shown wherever suitably be assumed and stated clearly. Un must be stated clearly.  Use of following supporting material is (As mentioned in Form No. 205)	Part C. r necessary. Any data missing may its of quantities used / calculated
PART - A ( Word Lim	
Q.1. What do you mean by Data Abstraction?	
Q.2. What is Database State?	
Q. 3. Write the features of Object-Oriented da	atabase system.

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Q.4. What is Data Independence?
Q. 5. What are the features of PL/SQL Language?
Q.6. What is the difference between third normal form and Boyce Codd?
Q. 8. List the types of data types used in PL/SQL.
Q.9. What is Multimedia Database?
Q. 10. Write the limitation of Conventional Database. 210
PART-B
(Word Limit 100) [5×4=20]
Q.1. Describe the three level architecture of DBMS.
Q.2. What are the comparison between E-R data model and object-oriented data model
Q.3. What is Serializability? Define conflict and view serializability.
Q. 4. Describe the different states of transaction.
Q.5. Describe the various security issues of database system.
note mark PART-C
(Any Inree) $\int dL dB$ [3×10=30]
Q.I. Describe the structure of DBMS. Explain various components of database syst
Q. 2. (a) Describe functional dependency. Why are some functional dependent trivial?
(b) Draw an E-R diagram of Bank Management system with appropriate enti- relationship and attributes.
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- Q. 3. What types of looping structure are available in PL/SQL? Explain with suitable
- Q. 4. What is exception handling in PL/SQL? Explain types of predefined Exception with
- Write about following: Q. 5.

[4×2.5=10]

- (a) Triggers
- (b) Cursors
- Group functions (c)
- Integrity Constraint (d)