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Total No. of Printed Pages: [01]

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**MCA (Semester – 3<sup>rd</sup>)**  
**DATABASE ADMINISTRATION**  
**Subject Code: MCAPD1-313**  
**Paper ID: [20270118]**

**Time: 03 Hours**

**Maximum Marks: 60**

**Instruction for candidates:**

1. Section A is compulsory. It carries 16 marks. It consists of 4 questions of 4 marks each.
2. Section B consist of 4 questions of 8 marks each. The student has to attempt any 3 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

**Section – A**

**(4 marks each)**

- Q1. What is database instance management?
- Q2. What is meant by migration strategy?
- Q3. What is the importance of database recovery?
- Q4.** What is database clustering?

**Section – B**

**(8 marks each)**

- Q5. What are the roles and responsibilities of a DBA?
- Q6. What are the challenges of business policy implementation?
- Q7. How and why will you plan a backup strategy?
- Q8.** How does the indexing improve the database performance?

**Section – C**

**(10 marks each)**

- Q9. How will you create a table, a view and an index? Illustrate with example.
- Q10. What is data integrity? What are the challenges of managing it?
- Q11. What is meant by sub-query tuning? How is it done? Explain with example.