

**(DMCA106)**

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**M.C.A. DEGREE EXAMINATION, MAY – 2018****First Year****DATABASE MANAGEMENT SYSTEMS****Time : 3 Hours****Maximum Marks :70****SECTION - A****Answer any three questions. (3 x 15 = 45)**

- Q1)** What is information system? Discuss components of information.
- Q2)** Explain about Sequential and Indexed file organizations with suitable example.
- Q3)** Discuss different classification of data models based on their physical storage.
- Q4)** Explain about information management description and data manipulation in hierarchical database management systems.
- Q5)** Explain about database recovery mechanism.

**SECTION - B****Answer any five questions.****(5 x 4 = 20)**

- Q6)** Describe the different associations between field.
- Q7)** Write about physical address pointer and relative address pointer.
- Q8)** Explain about multi list data structure with example.
- Q9)** Write about first and second normal forms with suitable example.
- Q10)** Explain about data volume and usage analysis.
- Q11)** Describe any four DML commands of IDMS.
- Q12)** Write about different relational algebra operations.
- Q13)** Give the responsibilities of DBA.

**SECTION - C**

**Answer all questions.** (5 × 1 = 5)

**Q14)** Define field.

**Q15)** What is meant by metadata?

**Q16)** What is PC – FOCUS?

**Q17)** What is E – R model?

**Q18)** What is concurrency?



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