

Paper code: 13526

1526

B.Sc. (Computer Science) (Part 3)

Examination, 2019

Paper No. 3.2

INTRODUCTION TO DATABASE MANAGEMENT SYSTEM

Time: Three Hours] [Maximum Marks: 50

Note: Attempt any five questions in all selecting one question from each section. All questions carry equal marks.

Section-A

1. What is data ? Explain the term “DBMS”. how does DBMS is different from traditional file management system ?
2. Describe various aspects of file organization with respect to the physical allocation.

Section-B

3. Explain the following data models with examples :
 - (i) Relational
 - (ii) Hierarchical
 - (iii) Network
4. What is the process of database design ? Describe “SQL” in detail. <http://www.mjpruonline.com>

Section-C

5. Explain various approaches for data integrity.
6. Write down about the following concepts :
 - (a) Consistency
 - (b) Security
 - (c) Privacy
 - (d) Authentication

Section-D

7. Describe the concept of data fragmentation in detail.
8. What do you mean by “Deadlock” ? What are the factors responsible for deadlock condition ? How deadlocks are prevented ?

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