

Name/Title of Paper – FUNDAMENTALS OF COMPUTER SCIENCE-II

Time : Three Hours]

[Maximum Marks : 80

[Minimum Passing Marks : 29]

नोट : दोनों खण्डों से निर्देशानुसार उत्तर दीजिए। प्रश्नों के अंक उनके दाहिनी ओर अंकित हैं।

Note : Answer from both the section as directed. The figures in the right-hand margin indicate marks.

SECTION-A**1. Answer the following:** **$1 \times 10 = 10$**

- (a) What is data ?
- (b) Define RDBMS ?
- (c) Define sub-schema ?
- (d) What is entity set ?
- (e) Define SQL ?
- (f) What is DDL
- (g) What is BCNF ?
- (h) Define operating system
- (i) Define paging
- (j) Define fragmentation ?

2. Answer the following: **$2 \times 5 = 10$**

- (a) What is normalization ?
- (b) What is DML ?
- (c) What is Booting ?
- (d) Define distributed operating system ?
- (e) What is user interface ?

SECTION-B**Answer the following question :** **$12 \times 5 = 60$** **3. Explain database system Architecture in detail ?**

OR

What do you mean by Normalization? Explain BCNF & 2NF with suitable example.

4. What is entity- relationship model? Explain with example.

OR

Explain various SQL statement used in database with example for creating, Deleting, Modifying, & view of data in a database?

5. Explain the function of I/O management and memory management in a computer in detail?

OR

Explain the following :

- (a) Relational Algebra
- (b) Concurrently and security.

6. Explain the functionality of operating system.

OR

What is join in SQL. Explain with suitable examples and query.

7. What are the features of Relational Data Base Management system and also explain the types of keys.

OR

Explain various threads and security measures in Net-Working