

SRIPAT SINGH COLLEGE

DEPARTMENT OF COMPUTER SCIENCE

Internal Examination 4th Semester (PCC) – 2024

OPERATING SYSTEM

Full marks : 20

Time : 1 Hr.

Group - A

1. Answer any ten questions :

2X10 = 20

- a. Explain process synchronization.
 - b. Differentiate between Internal and External Fragmentation.
 - c. Write two advantages of virtual memory concept.
 - d. Define the term Disk Bandwidth.
 - e. Differentiate between seek time and rotational latency.
 - f. Explain the term file system in brief.
 - g. Write a short note on "Process Control Block".
 - h. Explain various types of program threats.
 - i. What is segmentation?
 - j. What is kernel?
 - k. What is time-sharing system?
 - l. What is a thread?
 - m. What is the basic function of paging?
 - n. What are the necessary conditions for deadlocks?
 - o. What are the functions of memory management?
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DEPARTMENT OF COMPUTER SCIENCE
Internal Examination 4th Semester (GE) – 2024
DATABASE MANAGEMENT SYSTEM

Full marks : 20

Time : 1 Hr.

Group - A

1. Answer any ten questions :

2X10 = 10

- a) What is Data Model.
 - b) What are the components of ER Model.
 - c) What is class.
 - d) What is Abstract class.
 - e) What is Entity.
 - f) Difference between Super key and Primary key.
 - g) What is Client/Server architecture.
 - h) Write down syntax of Create table command.
 - i) Write down commands of DDL and DML. (Minimum 3 Commands each).
 - j) What do you mean by Function Dependencies? Write down the various Functional Dependencies.
 - k) Write down the difference between Relational Algebra and SQL queries.
 - l) What is BCNF.
 - m) Write down the major difference between BCNF and 3 NF.
 - n) What is Normalization?
 - o) Write down Three level architecture of DBMS.
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