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Roll No. :

MCA-11/M.Sc.IT-11

Operating System

**Master of Computer Application/Master of Science in
Information Technology/Master of Science
(Cyber Security) (MCA/M.Sc.IT-11/12/16/17/MSCCS-18)**

3rd Semester Examination June 2022

Time : 2 Hours

Max. Marks : 80

Note : This Paper is of Eighty (80) marks divided into two (02) Section A and B. Attempt the questions contained in these sections according to the detailed instructions given there in.

Section-A

(Long Answer-type questions)

Note: Section 'A' contains Five (05) Long-answer type questions of Twenty (20) marks each. Learners are required to answer any two (02) questions only.

(2 x 20 = 40)

Q.1. Discuss the following terms:

Swapping in memory management. Page tables and paging

P.T.O.

- Q.2 What is file system and explain the file system implementation techniques?
- Q.3 What is CPU scheduling and explain any one scheduling algorithms?
- Q.4 Explain the concept of thread and what are the design issues of thread?
- Q.5 Explain the deadlock and deadlock conditions.

Section-B

(Short Answer-type questions)

Note: Section 'B' contains Eight (08) Short-answer type questions of ten (10) marks each. Learners are required to answer any four (04) questions.

(4 x 10 = 40)

P.T.O.

- Q.1 What is operating system and explain time-sharing system?
- Q.2 What are the goals of scheduling algorithms?
- Q.3 Explain the concept of thread with example.
- Q.4 Discuss uses and advantages of virtual memory.
- Q.5 What are the goals of scheduling algorithms?
- Q.6 Discuss differences between paging and segmentation.
- Q.7 Explain the concept of relative and absolute path name with example.
- Q.8 Write are the differences between sequential access and random access files ?

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