

MCA-11**June/December – Examination 2020****Master of Computer Application
(II Year) Examination****Operating System****Paper : MCA-11***Time : 2 Hours]**[Maximum Marks : 80*

Note :- The question paper is divided into two Sections A and B. Write answers as per given instructions.

Section-A**8×2=16****(Very Short Answer Type Questions)**

Note :- Answer all questions. As per the nature of the question delimit your answer in one word, one sentence or maximum up to **30** words. Each question carries 2 marks.

1. (i) Give the definition of operating system.
- (ii) What is a real-time system ?
- (iii) What do you mean by Deadlock ?
- (iv) What do you mean by process ?

- (v) What is the meaning of paging ?
- (vi) Give an example of an Operating system.
- (vii) What is a distributed system ?
- (viii) What is Memory ?

Section-B **4×16=64**

(Short Answer Type Questions)

Note :- Answer any *four* questions. Each answer should not exceed **200** words. Each question carries 16 marks.

2. Discuss the working principle of direct memory access.
3. Explain virtual memory with a suitable example.
4. Write a short note on Distributed Operating System.
5. What is user authentication ? Explain different types of user authentication schemes.
6. What are Threads ? Explain the differences between threads and multi-threads.
7. Explain the FCFS algorithm and the SJF algorithm. Compare the average waiting time of both the algorithms.

8. Differentiate between sequential and random access files.
9. Explain the basic functions of the device-independent I/O software.