

MSCCS-10/MSCCS-204/MCA-204

December - Examination 2019

MSCCS-Final/MCA-IIInd Year Examination**Operating System****Paper - MSCCS-10/MSCCS-204/MCA-204****Time : 3 Hours]****[Max. Marks :- 80**

Note: The question paper is divided into three sections A, B and C. Write answers as per given instructions.

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

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

1.
 - i. Define computer virus.
 - ii. What do you understand by concurrent processes?
 - iii. Define dead lock.
 - iv. Define transaction.
 - v. Explain use of pipes in shell prog script.
 - vi. Write full form of NUMA.
 - vii. What cache coherence means?
 - viii. Define check points.

Section - B $4 \times 8 = 32$ **(Short Answer Questions)**

Note: Answer **any four** questions. Each answer should not exceed 200 words. Each question carries 8 marks.

2. What is authentication process?
3. Explain atomic transaction.
4. Write a short note on AWK.
5. What is client-server computing model? Explain.
6. What is the requirement of mutual exclusion algorithm?
7. Write need of Distributed Operating System.
8. What is cache coherence?
9. Write a brief note on Network file system.

Section - C $2 \times 16 = 32$ **(Long Answer Questions)**

Note: Answer **any two** questions. You have to delimit your each answer maximum upto 500 words. Each question carries 16 marks.

10. What do you understand by cryptography? Explain different models of cryptography.
11. What is the need of multiprocessor operating system. Explain different types of multiprocessor operating systems.
12. Explain coherence and consistency models in detail.
13. Explain Dead Lock Handling in detail using suitable examples.
