

MSCCS-10
June - Examination 2016
MSCCS (Final) Examination
Operating System
Paper - MSCCS-10

Time : 3 Hours]

[Max. Marks :- 100

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

Section - A

10 × 2 = 20

(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) What is immutable Files?
- (ii) What do you mean by Atomic Transactions?
- (iii) What do you mean by shell?
- (iv) What is Hash Function?
- (v) Give the definition of Integrity.
- (vi) How to initialize array in AWK?
- (vii) What is the use of AWK?
- (viii) What is the use of pipes?

- (ix) What do you mean by Cipher Text?
- (x) What is Trojan Horse?

Section - B**4 × 10 = 40**

(Short Answer Questions)

Note: Answer **any four** questions. Each answer should not exceed 200 words. Each question carries 10 marks.

- 2) What are public and private keys? How they are used in encryption and decryption process?
- 3) What is Critical Section? Discuss the Critical-Section Problem.
- 4) Explain with example Lamport Non token based algorithm for mutual exclusion.
- 5) Write short note on Sun's Network File System.
- 6) What is Cache Coherence Problem? Discuss the solution of that problem with example.
- 7) What is Kerberos? Explain its architecture in brief.
- 8) Explain 'Walk-through Algorithm' in brief.
- 9) How we can login in the UNIX? Write the steps.

Section - C**2 × 20 = 40**

(Long Answer Questions)

Note: Answer **any two** questions. You have to delimit your each answer maximum upto 500 words. Each question carries 20 marks.

- 10) What is deadlock? Explain how the deadlock handling in a Distributed System Environment is different from that in a Conventional Environment.
- 11) Explain how the concept of Distributed System Memory combines the merits of both Distributed and Shared Memory System. Explain consistency models in detail.
- 12) Discuss the Architecture and design issues related to Distributed File System.
- 13) What do you mean by Multiprocessor Operating System? Discuss various classification of Multiprocessors.
