MSCCS-10/MSCCS-204/MCA-204

June - Examination 2018

MSCCS-Final/MCA-IInd Year Examination

Operating System

Paper - MSCCS-10/MSCCS-204/MCA-204

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)   Define security threat.

    (ii)   What is Semaphore?

    (iii)   What is Kernel in Linux?

    (iv)   How can we declare array in awk?

    (v)   What is the need of database operating system?

    (vi)   Define critical section.

(vii) What is cache consistency?

(viii) What is the effect of security violation?

(ix) Define cryptography.

(x) What do you understand by Transaction.

Section - B $4 \times 10 = 40$
(Short Answer Questions)

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

2) Explain different authentication procedures.

3) Give deadlock characteristics.

4) Explain pipes in shell programming.

5) Discuss process synchronization.

6) Explain token based algorithm for mutual exclusion.

7) Give an account on mounting and caching in distributed file system.

8) Discuss safety mechanism in Access Matrin Model.

9) Write a note on shadow paging.

Section - C $2 \times 20 = 40$

(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) (i) Write shell script to find factorial of a number.

   (ii) Give a short note on client server computing model.

11) Explain distributed mutual exclusion using any one algorithm.

12) Detail cut memory coherence and consistency models.

13) What is Keberos? Give RSA method of public key cryptography.

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