MSCCS-10/MSCCS-204/MCA-204

December – Examination 2020

MCA/PGDCA Examination

Operating System

Paper: PGDCA-204/MCA-204

Time: 2 Hours] [Maximum Marks: 80

Note: The question paper is divided into two SectionsA and B. Write answers as per the given instructions.

Section-A

 $8 \times 2 = 16$

(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 upto 30 words. Each question carries 2 marks.

(1)

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185 Turn Over

- 1. (i) Define Authentication.
 - (ii) Explain relationship between shell and kernel.
 - (iii) Explain Filters.
 - (iv) Define global knowledge in distributed operating system.
 - (v) Define Mutual Exclusion.
 - (vi) Define Cryptography.
 - (vii) Define Alias.
 - (viii) Define Checkpoint.

Section-B

 $4 \times 16 = 64$

(Short Answer Type Questions)

- **Note**: Answer any *four* questions. Answer should not exceed **200** words. Each question carries 16 marks.
- 2. Explain critical section problem.
- 3. Explain deadlock avoidance.
- 4. What do you understand by Message Passing? How is it performed in distributed operating system?

(2)

- 5. Give performance metrics of Mutual Exclusion.
- 6. Explain Remote Procedure Call.
- 7. Write a note on naming conflict and its resolution in distributed file system.
- 8. Write the various design principles for secure system.
- 9. List the various multiprocessor operating system design issues.

(3)