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BCA-07/DCA-102

December – Examination 2020

BCA (Part II)/DCA Examination

Operating System–I

Paper : BCA-07/DCA-102

Time : 2 Hours]

[Maximum Marks : 70

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

Section–A

7×2=14

(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 the Operating System.
- (ii) Give one difference between Buffering and Caching.

- (iii) Give the definition of a file in the operating system.
- (iv) What is Bus ? Give an example.
- (v) What is Overlaying ?
- (vi) What do you mean by Worm ?
- (vii) Name any *two* examples of a system call.

Section-B **4×14=56**

(Short Answer Type Questions)

Note :- Answer any *four* questions. Each answer should not exceed **200** words. Each question carries 14 marks.

- 2. Explain the hierarchy of memory organization on a computer with a neat diagram.
- 3. What is Segmentation ? Discuss how it is different from fragmentation ?
- 4. Discuss the difference between monitors and semaphores with a suitable example.

- 5. Write a short note on the Inverted page table architecture. Explain with a suitable example.
- 6. Explain the Encryption and Decryption mechanism with a suitable example.
- 7. Discuss the difference between CUI and GUI in brief.
- 8. What do you mean by the access matrix ? Explain the different methods to implement the access matrix.
- 9. Explain Compile time-binding and Load time-binding address binding schemes in detail.