PGDCA/MSCCS-01/MCA-101

June - Examination 2017

MSCCS / PGDCA /MCA I Year Examination

Computer Fundamental and System Software

Paper - PGDCA/MSCCS-01/MCA-101

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 $10 \times 2 = 20$

(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)   Give the definition of computer.

(ii) List the advantages of Assembly language.

(iii) What do you mean by refresh rate of CRT?

(iv) Convert $(10101)_2$ to $(?)_{10}$.

(v) Draw the truth table of NAND gate.

(vi) List the four necessary conditions for a deadlock to occur.

(vii) What is aging with respect to scheduling?

(viii) What is i-node?

(ix) When does external fragmentation occur?

(x) What is critical section?

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) What is computer software? Compare application software and system software.

3) What is Modem? Explain its types.

4) Explain the working of OMR. Also compare with OCR.

5) What are the usage of K-map (Karnaugh map)? Explain with suitable example.

6) Differentiate between preemptive scheduling and non preemptive scheduling.

7) Write short note on Vi Editor.

8) Describe various file system used by windows file system.

9) What is page? When does page fault occur? Explain the role of page table in 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) What are the usage of computer memory? Discuss various types of primary memory in computer system.

11) Give the definition of operating system. Discuss various operating system services.

12) What are the characteristics of Linux? Discuss various types of users in Linux and how they are managed in Linux.

13) Discuss various features of Ms-Windows 2000.

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