PGDCA-01/PGDCA-101/ MSCCS-01/MSCCS-101/ MCA-101

June/December - Examination 2020

PGDCA/MSCCS (Previous)/MCA (Ist Year) Examination

Computer Fundamental and System Software

Paper: PGDCA-01/PGDCA-101/ MSCCS-01/MSCCS-101/MCA-101

Time: 2 Hours] [Maximum Marks: 80

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

Section–A 8×2=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 up to **30** words. Each question carries 2 marks.

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212 Turn Over

- What do you mean by refresh rate of CRT? 1. (i)
 - (ii) Convert $(1101101)_2 = (?)_8$.
 - (iii) Give any two applications of barcode.
 - (iv) Draw the truth table for the XOR gate with standard logic symbol.
 - (v) What do you mean by Thrashing?
 - (vi) What do you mean by System call?
 - (vii) Why is cache memory used in computer systems?
 - (viii) What is the full form of NTFS?

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 hard disk tracks, sectors and cylinders with graphical illustration.
- 3. What are the necessary conditions for deadlock? Explain with suitable examples.
- 4. Explain various operations performed by the control panel in the Windows operating system.

- 5. What is OCR? Explain its working.
- 6. Write a short note on ASCII code.
- 7. What is Karnaugh map (K-map) ? Explain considering the expression:

$$Z = f(A, B) = A' \cdot B' + A \cdot B' + A' \cdot B.$$

- 8. What is Printer? Explain different types of printers.
- 9. Explain the directory structure of the Linux file system.

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