

11. What is Deadlock ? Explain the various methods of Handling Deadlocks in brief.
12. Describe the difference between Windows and UNIX Operating systems in detail.
13. Consider the following processes as given below. Find the average waiting time and turn around time (Both for FCFS and SJF) :

Process	Arrival Time	Burst Time
P1	0	8
P2	1	4
P3	2	9
P4	3	5

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PGDCA/MSCCS-01/MCA-101

June – Examination 2020

MSCCS/PGDCA/MCA (I Year) Examination

Computer Fundamental and System Software

Paper : PGDCA/MSCCS-01/MCA-101

Time : 3 Hours]

[Maximum Marks : 80

Note :- The question paper is divided into three Sections A, B and C. Write answers as per 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.

1. (i) What is SSD storage media ?
- (ii) Convert $(11011)_2 = (?)_{10}$.
- (iii) What is i-node ?
- (iv) Draw the truth table for the NOT gate with standard logic symbol.
- (v) What is the wild-card character in MS-DOS ?
Give an example.
- (vi) What do you mean by MIPS ?
- (vii) What is ViEditor?
- (viii) Give any *two* differences between CRT and LCD monitor.

Section–B **4×8=32**

(Short Answer Type Questions)

Note :- Answer any *four* questions. Each answer should not exceed **200** words. Each question carries 8 marks.

2. What is a mouse ? How does it point on the screen ? Explain its working.

3. What do you mean by Gray code ? Define the steps of conversion a Gray coded number to binary number.
4. Distinguish between Printer and Plotter.
5. Write a short note on the RAID.
6. Explain the login and logout process of Linux.
7. What is System Call ? Explain in brief.
8. What is the Modem ? Explain the difference between Internal Modem and External Modem.
9. Explain some of the common algorithms used for memory allocation purposes with suitable example.

Section–C **2×16=32**

(Long Answer Type Questions)

Note :- Answer any *two* questions. You have to delimit your each answer maximum up to **500** words. Each question carries 16 marks.

10. What is Paging ? Explain the demand paging in detail.