

Roll No. _____
Total No. of Questions: [9]

Total No. of Printed Pages: [01]

PGDCA (Sem-1st)
OPERATING SYSTEM
Subject Code: PGCAS1-102
Paper ID: [19240102]

Time: 3 Hours

Maximum Marks: 60

Instructions to Candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consists of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consists of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Section-A

(2 Marks each)

- Q1. Attempt the following:
- a) What is a Real-Time Operating System?
 - b) Differentiate between Preemptive and Non-Preemptive Scheduling.
 - c) Describe Kernel and Shell.
 - d) Explain Files and Directory?
 - e) Define Parallel Processing.
 - f) Name any five Multiuser Operating Systems.
 - g) Define GUI and Icon?
 - h) What is the role of Spooling?
 - i) Define Unix Administration.
 - j) What is a Control Panel?

Section-B

(5 Marks each)

- Q2. Explain various types and services of Operating System?
- Q3. Explain various Commands used in the Unix Operating System?
- Q4. Define System Tools. Explain various steps to install a new software?
- Q5. Explain Electronic Mail and Vi Editor in detail?
- Q6. Differentiate between Distributed and Network Operating System.

Section-C

(10 Marks each)

- Q7. Describe Scheduling Criteria. Explain various CPU Scheduling Algorithms in detail?
- Q8. What is Deadlock? Explain its various conditions and characterization of Deadlock in detail?
- Q9. Write short notes on any two.
 - a. Batch Processing.
 - b. Structure of Unix.
 - c. Process Management.