

KAMARAJ COLLEGE (Autonomous)

Accredited with A+ Grade by NAAC

(Affiliated to Manonmaniam Sundaranar University, Tirunelveli)

THOOTHUKUDI - 628 003

(4 Pages)

Reg. No:

Question. Code No : 2400144

Sub Code : 24PECA11

PG Degree - End Semester Examinations, November 2024

First Semester

M.C.A

Elective - ADVANCED OPERATING SYSTEMS

(For those who joined in July 2024 onwards)

Time : 3 Hours

Maximum : 75 Marks

PART A - (10 × 1 = 10 Marks)

Answer ALL Questions

Choose the correct answer :

1. An Operating System is a _____
(a) Application Program (b) System Program
(c) AI Program (d) Neural Network Program
2. The Process is _____
(a) An instance of a program in execution (b) A Program only

- (c) A Process State (d) The Kernal State
3. In distributed system, each processor has its own _____
- (a) Local Memory (b) Clock
(c) Both Local Memory & (d) None
clock
4. _____ Protocol is often used in distributed operating systems for remote file access and manipulation?
- (a) NFS (b) FTP
(c) HTTP (d) SMTP
5. Which one of the following is a real time Operating System?
- (a) RTLinux (b) VxWorks
(c) WindowsCE (d) All the above
6. In Real time operating systems, interrupt latency should be _____
- (a) Maximum (b) Minimal
(c) Zero (d) Dependent on
Scheduling
7. Handheld Systems include _____
- (a) PFAs (b) PDAs
(c) PZAs (d) PUAs
8. Palm OS is an example of which type of Computer Operating System?
- (a) Single-tasking OS (b) Multi-tasking OS
(c) Multi-User OS (d) None
9. What was the primary programming language used for Symbian OS application development?
- (a) Python (b) C++
(c) Java (d) Ruby
10. Which operating system is commonly used on Apple's

PART: C - (5 × 8 = 40 Marks)

**Answer ALL Questions choosing either (a) or (b).
Answer should not Exceed 600 words.**

16. (a) Explain about Mainframe systems.

(OR)

(b) Describe about Deadlock avoidance.

17. (a) Illustrate about the design issues in Distributed system.

(OR)

(b) Explain any two deadlock handling strategies.

18. (a) Explain about the applications of real-time system.

(OR)

(b) Explain the characteristics of real-time system.

19. (a) Draw and explain the general architecture of android system.

(OR)

(b) Explain about Handheld Operating System and its types in detail.

20. (a) Formulate the architecture and SDK framework for iOS operating system.

(OR)

(b) Classify the file types in Linux operating system.