

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
MSc DEGREE EXAMINATION MAY 2023
(First Semester)

Branch –APPLIED ELECTRONICS

COMPUTER NETWORKS AND OPERATING SYSTEMS

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

1. The first Network was called as _____.
i) CNNET ii) NSFNET iii) ASAPNET iv) ARPANET
2. Which of the following tasks is not done by data link layer?
i) Framing ii) error control iii) flow control iv) channel coding
3. An endpoint of an inter-process communication flow across a computer network is Called as _____.
i) socket ii) pipe iii) port iv) machine
4. What are the types of distributed operating systems?
i) Zone based Operating system ii) Level based Operating system
iii) Network Operating system iv) All of the mentioned
5. What does OS X has?
i) Monolithic kernel with modules ii) microkernel
iii) monolithic kernel iv) hybrid kernel

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 a. Analyze the OSI model.
OR
b. List out the components of Data communication.
- 7 a. Write about the data link control.
OR
b. Explain Bridges.
- 8 a. Discuss about the FTP.
OR
b. Write a note on congestion control.
- 9 a. Elucidate the various services of operating systems.
OR
b. Explain Booting Machine and its operation.
- 10 a. Write the Shell scripts in Linux Programming.
OR
b. List out the threads in Linux.

Cont...

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 x 6 = 30)

- 11 a. Explain what is meant by Protocols in detail.
OR
b. Describe the characteristics of LAN.
- 12 a. Describe HDLC and features.
OR
b. Explain the data link layer protocols and its features.
- 13 a. Illustrate the operation of DNS in detail.
OR
b. What is meant by MIME? And explain it.
- 14 a. Discuss about the process management and its features.
OR
b. What is meant by IPC? And explain it.
- 15 a. What is kernel? Explain it.
OR
b. State the uses of NS2.

Z-Z-Z

END