

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2022
(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. ----- topology requires a multipoint connection.
(i) Star (ii) Mesh (iii) ring (iv) Bus
2. Routing protocols can be divided into ----- categories.
(i) 2 (ii) 3 (iii) 4 (iv) 5
3. Which one of the following are transport layer protocols used in networking?
(i) TCP and FTP (ii) UDP and HTTP
(iii) TCP and UDP (iv) HTTP AND FTP
4. A deadlock avoidance algorithm dynamically examines the ----.
(i) Operating system (ii) resources
(iii) System storage state (iv) resource allocation state
5. Which command is used to record a user login session in a file?
(i) Macro (ii) read
(iii) Script (iv) none of the above

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

6. a. Analyze the ISO model.
(OR)
b. What is meant by protocols? And explain the various types of protocols.
7. a. Elucidate routing Process.
(OR)
b. Explain the working of packet switching.
8. a. Discuss about the TCP.
(OR)
b. Write a short notes on Sockets.
9. a. Explain what do you mean by dead lock.
(OR)
b. Analyze the virtual machine.

Cont...

- 10 a. Write a short notes on Linux commands.
(OR)
b. What is Kernel? Explain it.

SECTION -C (30 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** Marks

(5 x 6 = 30)

- 11 a. Classify the various types of topologies.
(OR)
b. Explain the types of Networks.
- 12 a. Analyze the Error detection and correction process.
(OR)
b. Elucidate the IP addressing methods.
- 13 a. What is meant by HTTP? Explain it.
(OR)
b. Discuss about POP.
- 14 a. Explain the Structure of a operating system.
(OR)
b. Describe the concept of memory management.
- 15 a. Discuss about the device drivers.
(OR)
b. Write about the concepts of shell scripts.

Z-Z-Z

END