

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)
MSc DEGREE EXAMINATION MAY 2024
(First Semester)

Branch - APPLIED ELECTRONICS

COMPUTER NETWORKS AND OPERATING SYSTEMS

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	Which network topology requires a central controller or hub? a) Star b) Mesh c) Ring d) Bus	K1	CO1
	2	Routing protocols can be divided in ----- categories. a) 2 b) 3 c) 4 d) 5	K2	CO1
2	3	Most packet switches use this principle a) Stop and wait b) Store and forward c) Store and wait d) Stop and forward	K1	CO2
	4	Which NetWare protocol provides link-state routing? a) NLSP b) RIP c) SAP d) NCP	K2	CO2
3	5	A DNS client is called _____ a) DNS updater b) DNS resolver c) DNS handler d) DNS header	K1	CO3
	6	URL stands for _____ a) unique reference label b) uniform reference label c) uniform resource locator d) unique resource locator	K2	CO3
4	7	Which of the following is another name for the system virtual machine? a) hardware virtual machine b) software virtual machine c) real machine d) none of the mentioned	K1	CO4
	8	A process stack does not contain _____ a) Function parameters b) Local variables c) Return addresses d) PID of child process	K2	CO4
5	9	Which Linux command is used to remove files? a) remove b) rm c) delete d) del	K1	CO5
	10	In we use a driver for N number of files, then we have to create _____ device files. a) N b) 1 c) N-1 d) 2	K2	CO5

Cont...

SECTION - B (35 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Analyze the ISO model.	K1	CO1
	(OR)			
	11.b.	Explain the types of Network.	K2	
2	12.a.	Describe the HDLC.	K3	CO2
	(OR)			
	12.b.	Elucidate the IP addressing methods.	K2	
3	13.a.	Discuss about the TCP.	K3	CO3
	(OR)			
	13.b.	What is meant by WWW? Explain it.	K2	
4	14.a.	Explain the Structure of operating system.	K5	CO4
	(OR)			
	14.b.	What is meant by IPC? And explain it.	K4	
5	15.a.	What is kernel? Explain it.	K3	CO5
	(OR)			
	15.b.	Write the Linux commands.	K2	

SECTION -C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks

(3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Describe the characteristics of LAN.	K3	CO1
2	17	Analyze the Error detection and correction.	K4	CO2
3	18	What is meant by HTTP? And explain it.	K5	CO3
4	19	Discuss about the process management.	K4	CO4
5	20	Write the Shell scripts in Linux Programming.	K3	CO5