

PSG COLLEGE OF ARTS & SCIENCE  
(AUTONOMOUS)

BVoc DEGREE EXAMINATION MAY 2024  
(Second Semester)

Branch – NETWORKING & MOBILE APPLICATION

**NETWORK COMPONENTS**

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	How many layers does OSI Reference Model has? a. 6      b. 7      c. 8      d. 9	K1	CO1
	2	Generally which network topology is being used in an institute a. Star      b. Ring      c. Bus      d. Peer to Peer	K2	CO1
2	3	Which performs the task of taking a domain name and resolving that name into a corresponding IP a. Domain Name System b. Domain Name Server c. Domain Name Service d. None of the above	K1	CO2
	4	What is the use of Bridge in Network? a. to connect LANs b. to separate LANs c. to control Network Speed d. All of the above	K2	CO2
3	5	In which transmission mode, each station can transmit, but not at the same time a. Simplex      b. Half duplex c. Full duplex      d. all of these	K1	CO3
	6	Networking Hardware Address is referred with a. IP address      b. MAC address c. NIC      d. Unique Identifier	K2	CO3
4	7	The Routing Information Protocol(RIP) is an intradomain routing based on .....routing. a. Distance vector      b. link state c. Path vector      d. Distance code	K1	CO4
	8	What variation of NAT automatically assigns an inside global address from a pool of available addresses? a. SNAT      b. DNAT      c. PAT      d. GNAT	K2	CO4
5	9	In transition phase of Point-to-Point Protocol (PPP), if authentication is successful then connection transfers to the a. Networking phase      b. Open phase c. Establish phase      d. Terminating phase	K1	CO5
	10	What is the payload size of an ATM cell? a. 5 bytes      b. 48 bytes      c. 53 bytes      d. 64 bytes	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.	Explain the different types of network	K2	CO2
	(OR)			
	11.b.	Summarize the common approaches to multiplexing		
2	12.a.	Simplify the twisted-pair cable	K4	CO1
	(OR)			
	12.b.	List of the Virtual networking components		
3	13.a.	Justify the User Authentication in network	K5	CO2
	(OR)			
	13.b.	Explain about Power over Ethernet		
4	14.a.	Analyze Interior Gateway Protocol (IGP) and an Exterior Gateway Protocol (EGP).	K4	CO3
	(OR)			
	14.b.	List out the two approaches to Network Address Translation (NAT)		
5	15.a.	Determine the primary features are offered by Link Control Protocol(LCP)	K5	CO5
	(OR)			
	15.b.	Interpret the various Wireless Media in WAN network		

**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	Illustrate the structure of OSI Reference model with neat diagram	K4	CO1
2	17	Explain about the Fiber-Optic Cable	K4	CO2
3	18	Determine the IPV4 address structure	K4	CO3
4	19	List out the most popular routing protocols found in modern networks	K4	CO4
5	20	Interpret the various Technologies in WAN	K5	CO5