

PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2025
(Fifth Semester)

Branch - INFORMATION TECHNOLOGY

COMPUTER NETWORKS

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer **ALL** questions

ALL questions carry **EQUAL** marks

$$(10 \times 1 = 10)$$

Cont...

SECTION - B (35 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 × 7 = 35)

Question No.	Question	K Level	CO
11.a.	Write a note on Wide Area Networks.	K3	CO1
	(OR)		
11.b.	Explain about Twisted Pair cable and its uses.	K3	CO2
12.a.	Identify how a Cyclic Redundancy Check detects errors.		
	(OR)		
12.b.	Write in detail on Simplex Stop and Wait protocol for Noisy channel.		
13.a.	Compare and contrast Connection less and connection-oriented services.	K4	CO3
	(OR)		
13.b.	Examine the concept of IPV4.		
14.a.	Explain the concept of Connection establishment and connection release in Transport protocol.	K5	CO4
	(OR)		
14.b.	Evaluate the concept of TCP sliding window management.		
15.a.	List and explain MIME methods.	K4	CO5
	(OR)		
15.b.	Analyze in detail about Secure Socket Layer.		

SECTION -C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks (3 × 10 = 30)

Question No.	Question	K Level	CO
16	Compare the functions of each layer in the TCP/IP model.	K4	CO1
17	Analyze the concept of framing with a neat diagram.	K4	CO2
18	Explain the purpose of using link state routing in a network.	K5	CO3
19	Evaluate the advantages of using UDP for real-time communication.	K5	CO4
20	Distinguish between client-side and server-side web page generation.	K4	CO5