Reg. No.						
----------	--	--	--	--	--	--

G. VENKATASWAMY NAIDU COLLEGE (AUTONOMOUS), KOVILPATTI - 628 502.



PG DEGREE END SEMESTER EXAMINATIONS - NOVEMBER 2024. (For those admitted in June 2023 and later)

PROGRAMME AND BRANCH: M.Sc., COMPUTER SCIENCE

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
1	PART - III	CORE ELECTIVE-1	P23CS1E1B	ADVANCED COMPUTER NETWORKS
Date :	12.11.2024 / A	N Ti	ime : 3 hours	Maximum: 75 Marks

Da	ate	:	12.	11	.20	24	/ AI	I
----	-----	---	-----	----	-----	----	------	---

Course Outcome	Bloom's K-level	Q. No.	<u>SECTION – A (</u> 10 X 1 = 10 Marks) Answer <u>ALL Q</u> uestions.
CO1	K1	1.	Protocols are set of rules to governa) Communicationb) Standardc) Metropolitan communicationd) Bandwidth
CO1	K2	2.	cable consists of two insulated copper wires twisted together. a) Coaxial b) Twisted-pair b) Fiber-optics c) none of the above
CO2	K1	3.	A sender using stop-and-wait ARQ sends data frames numbereda) 0 and 1 onlyb) sequentially, beginning with 0c) sequentially, beginning with 1d) the frames are not numbered
CO2	K2	4.	A line can have less attenuation and less distortion if it isa) switchedb) conditionedc)unconditionedd) dedicated
CO3	K1	5.	Which type of network using the OSPF protocol always consists of just two connected routers?a) Point-to-pointb) Transientc) Stubd) Virtual
CO3	K2	6.	ICMP is primarily used fora) error and diagnostic functionsb) addressingc) forwardingd) routing
CO4	K1	7.	To use the services of UDP, we need socket addresses.a) Fourb) Twoc) Threed) One
CO4	K2	8.	Each segment as an independent packet and delivers it to the transportlayer at the destination machine is calleda) Connection Orientedb) Connectionlessc) Segmentationd) Reassembly
CO5	K1	9.	Wildcard domain names start with labela) #b) @c) *d) &
CO5	K2	10.	In Network Management System, the division that is responsible for controlling access to network based on a predefined policy is calleda) Fault Managementb) Secured Managementc) Active Managementd) Security Management

Course Outcome	Bloom's K-level	Q. No.	<u>SECTION – B (</u> 5 X 5 = 25 Marks) Answer <u>ALL</u> Questions choosing either (a) or (b)
CO1	K2	11a.	Explain about Components of Data communication system with diagram. (OR)
CO1	K2	11b.	Describe about addressing in TCP/IP protocol.
CO2	K2	12a.	Discuss on Circuit Switched Network. (OR) Write about the process of Framing.
CO2	K2	12b.	
CO3	K3	13a.	Collect the details about IPV4 addressing in network layer. (OR)
CO3	K3	13b.	Model the function of Reverse Path Forwarding (RPF) algorithm and explain.
CO4	K3	14a.	Identify the Significance of Transport Layer. (OR)
CO4	K3	14b.	Determine the advantages of QoS.
CO5	K4	15a.	Importance of DNS in the Internet. (OR)
CO5	K4	15b.	Devise the steps to file Transfer.

Course Outcome	Bloom's K-level	Q. No	$\frac{\text{SECTION} - C}{\text{ALL}} (5 \text{ X 8} = 40 \text{ Marks})$ Answer <u>ALL</u> Questions choosing either (a) or (b)
CO1	K4	16a.	Compare OSI Reference model with TCP/IP Reference Model. (OR)
CO1	K4	16b.	Classify Transmission media with necessary diagram.
CO2	K5	17a.	Assess Virtual Circuit Network. (OR)
CO2	K5	17b.	Conclude the functions of Satellite networks.
CO3	K5	18a.	Evaluate the efficiency of Open Shortage Path First protocols. (OR)
CO3	K5	18b.	Assess the impact of ICMP on Data Transmission.
CO4	K5	19a.	Predict the application of User Datagram Protocol. (OR)
CO4	K5	19b.	Assess the effect of congestion in Computer network and explain how to control it.
CO5	K6	20a.	Integrate the process of e-mail. (OR)
CO5	K6	20b.	Design the Function of Network Management System.