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## Question Paper Code: 52456

## B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2017

Sixth/Seventh Semester

Electronics and Communication Engineering EC 2352 – COMPUTER NETWORKS

(Common to Biomedical Engineering) (Regulations 2008)

(Also Common to PTEC 2352 – Computer Networks for B.E. (Part-Time) Fifth Semester – ECE – Regulations 2009)

Time: Three Hours

Maximum: 100 Marks

## Answer ALL Questions

PART - A

 $(10\times2=20 \text{ Marks})$ 

- 1. Define simplex, half-duplex and full duplex communication. Give example.
- 2. List the three phases of circuit switched communication.
- 3. What is flow control and why it is required in network communication?
- 4. Define virtual LANs.
- 5. Mention the significance of IPV6.
- 6. Define unicast and broadcast.
- 7. State the key difference between UDP and TCP.
- 8. Define QoS. List the parameters used to measure QoS.
- 9. What is a domain name system?
- 10. Differentiate between HTTP 1.0 and HTTP 2.0.

PART - B

 $(5\times16=80 \text{ Marks})$ 

- 11. a) i) Outline with a diagram and example, a simplified data communications model.
  - ii) Explain with a diagram the layers in the ISO / OSI protocol architecture. (10) (OR)

	b)	i)	Differentiate between guided transmission media and unguided transmission media. Give examples.	(4)
		ii)	What are the major components of an optical communication system? Discuss.	(6)
		iii)	Explain packet switching with an example.	(6)
12.	a)	i)	Outline how the data link layer detects error.	(4)
		ii)	Appraise the working of stop and wait data link layer protocol.	(4)
		iii)	Explain the working of CSMA/CD protocol.	(8)
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	b)	Ou	atline the design goal of Asynchronous Transfer Mode (ATM) and explain e ATM protocol architecture with a neat diagram.	(16)
13.	a)	W]		(16)
			(OR)	
	b)	i)	What is DHCP? How does DHCP work?	(6)
		ii)	Where is a routing table maintained? Draw the structure of a routing table.	<b>(4)</b>
		iii)	Illustrate with a diagram unicast routing and multicast routing.	(6)
14.	a)	ha	plain with a diagram how TCP keeps track of all the different events ppening during connection establishment, connection termination and data nsfer.	(16)
			(OR)	
	b)	i)	Identify the source port number and the destination port number of the following dump of the UDP header in hexadecimal format: CB84000D001C001C	(4)
		ii)	Explain with diagram encapsulation and decapsulation in UDP.	(12)
15.	a)	i)	Outline the hierarchy of domain name system.	(6)
		ii)	Explain with a diagram the working of simple mail transfer protocol.	(10)
			of Religion (OR)	
	b)	Whand	nat is digital signature? Explain with a diagram the process of creating d verifying a digital signature in source and destination hosts?	(16)