Code: AE71/AC67/AT67 Subject: DATA COMM. & COMPUTER

AMIETE - ET/CS/IT (NEW SCHEME)

SHILDENT BOUNTS! COM **JUNE 2012** Time: 3 Hours

PLEASE WRITE YOUR ROLL NO. AT THE SPACE PROVIDED ON EACH PAGE IMMEDIATELY AFTER RECEIVING THE QUESTION PAPER.

NOTE: There are 9 Questions in all.

- Question 1 is compulsory and carries 20 marks. Answer to Q.1 must be written in the space provided for it in the answer book supplied and nowhere else.
- The answer sheet for the Q.1 will be collected by the invigilator after 45 minutes of the commencement of the examination.
- Out of the remaining EIGHT Ouestions answer any FIVE Ouestions, Each

-	Choose the correct or the best alternative in the following:				
	a. Which is not a transmission media for wire line communication network?				
	(A) Twisted pair(C) Coaxial cable	(B) Fiber optics Cable(D) Radio wave			
	b. E-mail is the task performed at which of the following layer of OSI?				
	(A) Session Layer(C) Application Layer	(B) Physical Layer(D) Presentation layer			
	c. Number of channels of 100 kHz in a frequency range from 1800 MHz to 1862 MHz is equal to				
	(A) 62 (C) 620	(B) 612 (D) 310			
	d. Which of the following modulation is used to convert analog data into digital?				
	(A) PSK (C) QPSK	(B) DPCM (D) FSK			
	e. Which of the following is not transmission impairment?				
	(A) Fading(C) Light	(B) Thermal effect(D) Noise			
	f. IP address in IPv4 is of				
	(A) 4 Bytes (B) 32 bits				

(**D**) All the above

(C) <1 to 3 bytes for net address><3 to 1 bytes for host address>

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				a network compone	nt to connect ty	wo COLINA
		(A) Bridge(C) Modem		(B) Hub (D) Router		KANTHOUNTE.
	h.	Which of the following Session layer come	•	true about session la		
		(A) Above transpo(B) Below present(C) Between trans(D) Between trans	ation layer port and netwo			
	i.	Odd parity is achie	eved by paddin	g additional		
		(B) Odd number o (C) Odd number o	f low bits to m f high bits to n	ake number of high bits hake number of high bits make number of high bits make number of low bits	s odd ts odd	
	j.	UDP is implement	ed over	protocol		
		(A) Connection or(C) Only of wired		(B) Connectionless(D) None of these	;	
		•	-	as out of EIGHT Quest arries 16 marks.	ions.	
Q.2	a.	What is communi	cation protoco	ol and why is it required	?	(8)
	b.	Define the concerused in internetwo		Discuss the addressing	s schemes general	(8)
Q.3	a.	What is multi pa	_	That is the effect of m	ulti path fading o	on (8)
	b.	What is different Explain the term of		base band and broad ty.	band transmissio	n? (8)
Q.4	a.	Explain Synchron	ous Transmiss	sion. Discuss CRC.		(8)
	h	How the analog	sional is co	nverted into digital d	ata? Explain ΔΓ)C

quantization level. **(8)**

Q.5 a. How single resource is shared among many users? Explain the technique of statistical TDM. **(8)**

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b.	Why flow control is required in network communication? Discuss the role	•
	of buffer in the control of flow.	(8

- **Q.6** a. Explain Bellman-Ford Least Cost Algorithm.
 - b. Explain the effect of congestion on network traffic and its control mechanism. **(8)**
- a. Describe the mechanism of accessibility of transmission media in BUS **Q.7** topology of LAN. **(8)**
 - b. Is it possible for multiple users to access and use the transmission media at the same time in BUS topology? Discuss.
- **Q.8** a. Describe the addressing format used in IPv6. How the multicast packet is addressed in IPv6? **(8)**
 - b. How the TELNET differs from FTP? Explain the command used to upload multiple files using FTP. **(8)**
 - **Q.9** Write short notes on **TWO** of the followings:
 - (i) **Directory Service**
 - (ii) POP up email server
 - (iii) UDP. (8+8)