END SEMESTER/RETEST 2020

COMPUTER COMMUNICATION AND NETWORKING

(CO-504)

FULL MARKS- 70 (25+45)

TIME - 3 HOURS

PART-A

MARKS - 25

All questions are compulsory

1. Fill up the blanks:			1*5=5
i) Dialog management serv	ice is provided by	layer	
ii) DNS is a	layer protocol		
iii) DHCP stands for	A soften and devialed manufacture and residue to the processor partners in larger		
iv) InALOHA	, transmission must be d	one in slot boundary	
v) In a	network, any client con	nputer can also be a serve	
2. Choose the correct alternation	atives		1*10=10
i) OSI stands for			
a) open system interconnec	tion		
b) operating system interface	ce		
c) optical service implemen	tation	Svel doche p	
d) none of the mentioned			
*			
ii) A file can be transferred	by using		
a) ARP			
b) FTP			
c) SMTP			
d) Both (a) and (b)			
iii)TCP is a		The state of the s	



a) Reliable service

b) Unreliable service

- c) Both (a) and (b)
- d) None of these
- iv) Packets are found at which layer?
- a) Data link
- b) Transport
- c) Network
- d)Session
- v) TCP/IP model does not have _____ layer but OSI model have this layer.
- a) session layer
- b) presentation layer
- c) application layer
- d) both (a) and (b)
- vi). Which of the following are transport layer protocols?
- a) TCP and UDP
- b) IP
- c) FTAM
- d) IP and TFTP
- vii) Encryption takes place at which layer?
- a) Application
- b) Presentation
- c) Session
- d) Transport
- viii) What is the simplest type of twisted-pair phone cabling that provides a slow ,reliable path for information at up to 64 Kbps
- a) Cat 1
- b) Optical fiber
- c) Microwave
- d) Coax
- ix) Which type of network is the telephone system?



- a) Public network
- b) Private network
- c) VPN
- d) VAN
- x) The network layer concerns with
- a) bits
- b) frames
- c) packets
- d)none of the above
- 3. Write true or false against each statement given below

1*10=10

- a) A switch is a device that connects multiple computers into a network in which multiple communications links can be in operation simultaneously.
- b) The leaky bucket is a routing algorithm
- c) The error detection/correction techniques ensure that there are absolutely no undetected bit errors
- d) A firewall is software and/or hardware that protects a computer or network from intruders .
- e) A LAN is a large area network
- f) Wireless communication media transmits information over a closed, connected path
- g) In a peer-to-peer network, all data and software are stored on a centralized server.
- h) Simple parity check is used for error correction
- i) Today fiber optic cable is the media of choice for backbone networks
- i) The fastest type of internet connection is created by using dial-up

PART B

MARKS-45

Answer any three questions

4. (a) Draw the layered architecture of OSI model and explain the function of each layer of OSI model.

3+7=10

(b) Describe the concept of circuit switching and packet switching

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5.(a) Explain two types of guided media and two types of unguided media transfer in networks. 5+5=10 (b) Write about wireless transmission briefly. 5 6. (a) Explain various types of errors in data transmission. 5 (b) Define sliding window protocol. 2 (c) What are the design issue of network layer. 3 (d) Discuss session layer services in brief.. 5 7.(a) What do you mean by IP address? How many classes of IPV4. Explain in brief. 2+5=7(b) Why do you need routing protocols? Explain in brief the distance vector routing algorithm 2+6=8 8. (a) What is error detection? List various methods of error detection and explain any one of them in brief . 2+5=7(b) Explain the general approaches to data compression in brief. 8

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