Reg. No.:					

Question Paper Code: 41852

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2016

Fifth Semester

Information Technology

14UIT502 - COMPUTER NETWORKS

(Common to Computer Science and Engineering)

(Regulation 2014)

Duration: Three hours Maximum: 100 Marks

	Answer ALL Ques	etions
	PART A - $(10 \times 1 = 10)$	0 Marks)
1.	Which error detection method involves polynomia	als?
	(a) Simple parity check(c) CRC	(b) Two - dimensional parity check(d) Checksum
2.	The process-to-process delivery of the entirelayer.	message is the responsibility of the
	(a) Network (b) Transport	(c) Application (d) Physical
3.	Size of the data field in IEEE 802.3 is	
	(a) 0 to 8181 bytes	(b) 0 to 10000 bytes
	(c) 0 to 1500 bytes	(d) 6000 bytes
4.	FDDI stands for	
	(a) Fiber device data interface	(b) Fiber distributed device interface
	(c) Fiber distributed device interchange	(d) Fiber distributed data interface

5.	change their routing decisions to reflect changes in the topology						
	(a) Nona daptive	e algorithms	(b) Adaptive	algorithms			
	(c) Static algorit	hms	(d) Recursive	e algorithms			
6.	Which of these state	ments is true about packet	switching netwo	orks?			
	(a) Resource all	ocation is done for a packet	beforehand				
	(b) Bandwidth is reserved on the links						
	(c) Scheduled processing for a packet						
	(d) Resource allocation is done on demand						
7.	In open loop conges	tion control techniques, the	decisions are b	ased on the			
	(a) without rega	rd to the current state of the	e network				
	(b) with regard t	to the current state of the ne	etwork				
	(c) with regard t	o the choice of the host					
	(d) without rega	rd to the choice of the host					
8.	In transport layer, E	nd to End delivery is the m	ovement of data	1 from			
	(a) one station to	the next station	(b) one netwo	ork to the other network			
	(c) source to des	tination	(d) one route	r to another router			
9.	is coll	ection of millions of files	stored on thousa	ands of servers all over the			
	world						
	(a) Internet	(b) World wide web	(c) HTTP	(d) Server			
10.	A DNS	_servers gets its data from	another DNS se	erver			
	(a) primary	(b) secondary	(c) root	(d) all of the above			
		PART - B (5 x 2 =	10 Marks)				
11.	What are the three c	riteria necessary for an effe	ective and efficient	ent network?			
12.	Compare Transparer	nt bridge Vs Source routing	g bridge.				
13.	List out features in C	OSPF.					
14.	What is meant by qu	ality of service?					
15.	How does MIME en	hance SMTP?					

PART - C (5 x 16 = 80 Marks)

Or (b) Explain about framing and its types. (16) 17. (a) Explain the physical properties of Ethernet 802.3 with necessary diagram of Ethernet transceiver and adaptor. (16) Or (b) Write a short note on: (i) FDDI (ii) Bridges and Switches (8) 18. (a) (i) Compare virtual circuits and datagram. (8) (ii) Explain about ARP in detail. (8) Or (b) Explain distance vector routing with suitable example. (16) 19. (a) (i) Illustrate and explain UDP and its packet format. (10) (ii) Show the difference between UDP and TCP. (6) Or (b) Illustrate TCP congestion control techniques in detail. (16) 20. (a) Discuss the role of a DNS on a computer network. (16) Or (b) Write short notes on (i) PGP (8) (ii) SSH (8)	16.	(a)	Draw the OSI network architecture and explain the functionalities of every layers in detail. (16)
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			(ii) SSH (8)