Faculty: Computers and Informatics

Class Year: 2017/2018

Specialization: Information Technology Subject Name: Computer Networks Department: Information Technology

Midterm Exam



Date: November 2017 Time Allowed: 60 min. No. of Pages: 2 No. of Questions: 30 Full Mark: 30 Points

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

1) GBN does not buffer A) False	r out of order packets, so a receiv	ve buffer is not needed B) True	
2) What is the type of t A) Type CNAME	he answer to a DNS query for th B) Type NS	e name of a mail server C) Type A	D) Type MX
separated by 1.5 Mb	nessages are sent from host A to ps links that are 100m long. Ass er microsecond. What is the tota	ume no acknowledgments, a	
A) 16.6msec	B) 0.66msec	C) 66msec	D) 6.6msec
4) Using the question 3 A) 2 microsecond	s, what is the total propagation of B) 20 microseconds	delay? C) 3 microseconds	D) 0.3 microseconds
5) Using the question 3 A) 10 msec	B, what is the total queuing delay B) 15 msec	y? C) 5 msec	D) 0 msec
6) A network router joi A) Gateway	ins two together B) Networks	C) Switches	D) Computers
7) Comparing to HTTF A) HEAD	? 1.0, which method is new to HT B) GET	TTP 1.1? C) POST	D) PUT
8) UDP are TCP are the A) False	e same for applications that send	one packet at a time B) True	
9) What is the port nur A) 25	nber for HTTP? B) 21	C) 80	D) 65
10) The situation when a A) packet collision	a router drops the packet that are n B) packet delay	rives a full queue is called C) packet loss	D) packet sniffing
11) Which has separate A) FTP	control and data connections? B) SMTP	C) POP3	D) HTTP
12) Non-persistent HTT A) False	TP will require 12 RTTs to transf	er 1 web page with 5 objects B) True	
13) Each Web object is a A) HTML	ddressable by a B) URL	C) XML	D) HTTP
14) HTTP has a mechan A) Cache Check	ism that allows a cache to verify B) Cache Date	that its objects are up to date C) GET	. This mechanism is called D) Conditional GET
15) TELNET used A) IP	protocol for data connectio B) TCP	n C) DHCP	D) UDP

A) Link Layer C) Transport Layer		B) Application Layer D) Network Layer			
		requests per second. Each reque link. What is the traffic intensit C) 2	_		
A) 0.0	Б) 1	C) 2	D) 0.3		
	utilization of the link do	iinistrator was worried about q wn to 30%. If she decided to up	-		
A) 2Mbps	B) 1.5Mbps	C) 3Mbps	D) 2.5Mbps		
19) The sequence number ra A) True	ange must be at least twic	e the send window for GBN B) False			
20) What is the size of an IP	address?				
A) 64 bit	B) 32 bit	C) 16 bit	D) 128 bit		
21) UDP is an unreliabe pro	tocol				
A) False		B) True			
22) Selective Repeat allows	the sender and receiver w	vindows to be unsynchronized			
A) True		B) False			
23) Transport layer of OSI n	nodel lies between Netwo	ork and			
A) Application	B) Data link	C) Presentation	D) Session		
24) Shortening the distance	between two routers wou	ıld reduce the			
A) transmission delay C) propagation delay		B) processing delay D) queuing delay			
c) propagation delay		D) queuing delay			
25) Congestion control redu A) False	ices the transmission rate	at the sender when the receiver B) True	r is overloaded		
26) Protocols are not require A) False	ed to govern communicat	ion activity in the Internet B) True			
27) The UDP checksum of th 1. 1000 0000 1111 0000	ne following two binary r	numbers is			
2. 1000 1111 0000 1000					
A) 1111 0000 0000		B) 0000 1111 1111			
C) 0011 1111 1111	1001	D) 0000 1111 1001	1001		
28) UDP implements conges A) True	stion control but not flow	control or reliability B) False			
29) A web cache is both a se A) False	erver and client	B) True			
30) A particular FSM is defined A) False	ned by a list of its states, a	and the triggering condition for B) True	each transition		

16) Which layer is most likely implemented by hardware?

Answer Key

Testname: IT305_2017_2018_MIDTERM

- 1) B
- 2) D
- 3) C
- 4) A
- 5) D
- 6) B
- 7) D
- 8) A
- 9) C 10) C
- 11) A
- 12) B 13) B
- 14) D
- 15) B
- 16) A
- 17) D
- 18) D 19) B
- 20) B
- 21) B
- 22) A
- 23) D
- 24) C
- 25) A
- 26) A
- 27) A
- 28) B
- 29) B
- 30) B