

FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA SCHOOL OF INFORMATION AND COMMUNICATION TECHNOLOGY DEPARTMENT OF INFORMATION AND MEDIA TECHNOLOGY

SECOND SEMESTER 2015/2016 EXAMINATION

COURSE CODE:

CIT 322

COURSE TITLE:

PRACTICAL COMPUTER NETWORKS

CREDIT UNITS:

3

TIME ALLOWED:

2 hours

COURSE LECTURER:

M.E. Bima

NUMBER OF QUESTIONS:

Section A: 10 Fill-in The Blank Space Questions

Section B: 10 Objective Questions Section C: 2 Theory Questions

NUMBER OF PAGES:

3 (INCLUDING THIS PAGE)

INSTRUCTIONS

- Write your MATRICULATION NUMBER on both Question and Answer booklets.
- DO NOT write your NAME on the Answer Booklet.
- Answer all questions
- · DO NOT use red pen
- · Please use a clear handwriting
- Only non-programmable calculators are allowed for this exam



SECTION A: (Fill in the blank spaces)

1. The	Ethernet technology	y adopts r	etwork topology.		
		f the TCP/IP network model		and	layers of
the	OSI reference mode				
3. To	. To solve the communication problem between multivendor devices, approach				
pro	posed.				
4. The	ere are num	ber of logical ports on every	host node.		
5. Do	D network model is	also known as			
6. The	e three-way handshal	ke is used to establish a	circuit		
7. Ar	outer uses a	to store data	about various destination n	ietworks.	
8. CS		e access technique used in the		an abbreviatio	on for
9: Da	ta at the Data link lay	yer is known as			
10. Ad	dress Resolution Pro	tocol resolves	to		
SECTI	ON B (Objective Qu	uestions)			
11 The	e Ethernet has a netw	vork speed of 10M ?			
A, BPS			C, bps	D, bpS	
12. WH	nich of the following	is not on the OSI reference n	nodel?		
A, Net		B, Application		D, Session	1
	16	3.230.480.0			
	TPS protocol uses w	hich port of the transport lay			
A, 80		В, 110	C, 23	D , 443	
14. WI	nich of the following	devices operate on Layer 4 of	of the OSI reference model?)	
A, Rou	iter	B, Hub	C, Switch	D, None o	f the options
15. 4.			the most consect ention)		
		hub gets received by? (Select B, All connected hosts		D None o	f the options
A, The	intended nost	B, All connected nosts	C, A Remote Network	D, None o	Title options
16. WI	hich of the following	is a type of Flow Control? (5	Select all that apply)		
A, Cor	ngestion Distortion	B, Congestion Avoidance	C, Buffering	D, All of t	the options
17 11/1	hat is the first modest	cant during a 2 way handsha	lea.		
		sent during a 3-way handsha	C, AEK	D, ACK	
Λ, SY		B, ACK-SYN	C, AEN	D, ACK	
18. Eth	nernet address is also	known as add	ress		
Λ , IP		B, MAC *	C, port	D, house	
10 D1	-45 connector is used	to terminate			
	axial Cable	B, Twisted pair cable	C Fibre Ontics Cable	D, All of	the above
11, 000	axiai Caoic	D, I wisted pair capit	e, i fore opties care	2, 01	
20. Fra	ame relay is a type o	feircuit switching technology	G. C. S.		
A, Tru	ie .	B, False	C, It depends		



SECTION C (Theory Questions)

- 1. Determine the
 - a. Subnet mask
 - b. Network address
 - c. Broadcast address
 - d. Valid range and
 - e. Number of host on each network

Of the first 3 Networks if you are assigned a network address of 172.25.0.0 with subnet mask of 255.255.0.0 by your ISP and are required to create 128 networks with it. (Show all workings)

2.

- a. While a packet is being routed to a destination network, the source and destination IP address remain constant until packet arrives destination. However, the source and destination MAC addresses keep changing. Explain why.
- b. What are the valid range of addresses for class A, B and C IP addresses?
- c. List and briefly explain any two classes of Routing protocols you know.
 - d. List and briefly explain any two Layer 2 WAN protocol you know.

GOOD LUCK