(7 pages)	J	Reg. No. :			
Code N	o.: 7794	Sub. Code : WCSE 12			
M.		REE EXAMINATION, IBER 2023.			
First Semester					
	Comput	ter Science			
Elective	I — ADVANCEI	COMPUTER NETWORKS			
(For	those who joine	d in July 2023 onwards)			
Time: Th	ree hours	Maximum: 75 marks			
	PART A — (18	$5 \times 1 = 15 \text{ marks}$			
	Answer A	LL questions.			
Choo	ose the correct ar	nswer:			
1. Whi	1. Which is the device that receives the message?				
(a)	Message				
(b)	Sender				
(c)	Receiver				
(d)	Transmission n	nedium			

2.	requ	he ————— layer coordinates the functions equired to carry a bit stream over a physical medium					
	(a)	Network	(b)	Physical			
	(c)	Data Link	(d)	Session			
3.	A tw	wisted pair consists of ———— conductors					
	(a)	Two	(b)	Three			
	(c)	Five	(d)	Eight			
4.	Whi			for the initial ons and access points			
	(a)	management	(b)	control .			
	(c)	data	(d)	all of these			
5.	Which satellite are positioned between the two van Allen belts?						
	(a)	MEO	(b)	GEO			
	(c)	LEO	(d)	None of these			
6.		ch generation of cel gned for digitized ve		telephony was mainly			
	(a)	First	(b)	Second			
	(c)	Third	(d)	Fourth			

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7.	The addresses are used to define a group of hosts instead of just one		Which of the following is a quality of service mechanism?	
	(a) Any cast (b) Reserved		(a) Admission policy	
			(b) Window policy	
	(c) Local (d) Multicast		(c) Retransmission policy	
8.	Which of the messages are designed for diagnostic purpose?		(d) Discarding policy	
		12.	In ——— queuing, packets are still assigned	
	(a) Echo-request and reply		to different classes and admitted to different queues	
	(b) Timestamp request and reply		(a) FIFO (b) Weighted fair	
	(c) Address mask request and reply		(c) Priority (d) None of these	
	(d) None of these	13.	What is the generic domain of international organization?	
	ne ———— flag means that the destination is		(a) Org (b) Int	
	in another network		(c) Coop (d) Com	
	(a) U (b) G	1	y: 34	
10.	(a) U (b) G	14.	Which method of replying is defined as message to the sender or recipients of the copy?	
	(c) M (d) H			
			(a) Composing messages	
	The numbering system allows TCP to use a byte-oriented —————— control		(b) Reading messages	
	byte-oriented ——— control		(c) Replying to messages	
	(a) Congestion (b) Error		(d) Forwarding messages	
	(c) Flow (d) Transmission			
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- 15. The ———— is a 1-byte field that defines the type of data
 - (a) Length
- (b) Tag
- (c) Sequence of
- (d) Sequence

PART B — $(5 \times 4 = 20 \text{ marks})$

Answer ALL questions, choosing either (a) or (b).

16. (a) Describe the bus topology with diagram.

Or

- (b) State microwaves with diagram in brief.
- 17. (a) Distinguish between fixed size and variable size framing.

Or

- (b) Illustrate the three categories of satellites.
- 18. (a) Appraise the reverse path broadcasting (RPB).

Or

(b) State the difference between Unicast and multicast routing.

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19. (a) Compare and contrast multiplexing and demultiplexing.

Or

- (b) Justify the quality of service (QOS).
- 20. (a) Write short note on name space.

Or

(b) Validate the File Transfer Protocol (FTP)

PART C - (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b).

21. (a) Examine the OSI model and its layers with neat diagram.

Or

- (b) Discuss about Twisted-pair cable in detail.
- 22. (a) Illustrate the circuit-switched networks.

Or

(b) Explain on blue tooth and its architecture.

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23. (a) Interpret the IPv6 addresses of network layer.

Or

- (b) Illustrate the ICMP briefly.
- Analyze the various user datagram protocol operations.

Or

- Compare open and closed loop congestion control.
- Construct the E.Mail architecture with diagram.

Or

Justify on DNS in the internet.

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