#### CS/B.TECH/ECE(O)/ODD/SEM-7/EC-703C/2019-20



# MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL

Paper Code: EC-703C

PUID: 07081 (To be mentioned in the main answer script)

### COMPUTER NETWORKS

Time Allotted: 3 Hours

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Full Marks: 70

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

#### GROUP - A

#### ( Multiple Choice Type Questions )

- 1. Choose the correct alternatives for any ten of the following:  $10 \times 1 = 10$ 
  - i) Wireless transmission can be done via
    - a) radio waves
- b) microwaves
- c) infrared
- d) all of the mentioned.
- ii) The first Network is
  - a) CNNET
- b) NSFNET
- c) ASAPNET
- dY ARPANET.
- iii) ...... layer is an addition to OSI model when compared with TCP IP model.
  - a) Application layer
  - b) Presentation layer
  - c) Session layer
  - d) Both Session and Presentation layers.

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	) burst error			•
(	) tuverted err	OV.		
	) — none of the			
• ,	tuce or more d onnection.	leylees sh	are a link t	n
સ	thipoint			
(1),	Mustipoint			
(1)	Point to poin	t		,
d)				
vi) N	r large network	8	topology	ta used.
,a)		b		
(1)	Bus	ૃત		
vii) Wh	deh one of the used for netwo	following k layer de	routing alg Sign ?	orithms can
a)	Shortest path			
b)	Distance vecto			
e)	Link state rou	ttiig .	•	
<b>cd)</b>	All of these.		•	
viii) The	data link k and enc- smission.	ayer tak apsulates	them into	mames for
elit :	network kwer	THE STATE OF THE S	physical	layer
- (	ransport layer	(16.	application	m layer.
ix) in C	OSI network rmed by		ure, the	routing is
a) 1	etwork kwer	<b>b</b> )	transport	layer
	pplication laye	••	none of th	iese.
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- x) Two devices are in network if
  - a) a process in one device is able to exchange information with a process in another device
  - b) a process is running on both devices
  - c) PIDs of the processes running of different devices are same
  - d) none of these.
- xi) The functionalities of presentation layer includes
  - a) Data compression b) Data encryption
  - c) Data description di All of these.
- xii) Network congestion occurs
  - a) in case of traffic overloading
  - b) when a system terminates
  - c) when connection between two nodes terminates http://www.makaut.com
  - d) none of these.

#### GROUP - B

### (Short Answer Type Questions)

Answer any *three* of the following.  $3 \times 5 = 15$ 

- 2. Define computer networks. Discuss various types of network topologies in computer network.
- 3. What is bit Stuffing? Why is it used?
- 4. What are the differences between bridge and hub? Why is hub called multiport receiver?
- 5. What is the purpose of DNS?
- 6. How are HTTP and WWW related to the Internet?

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### GROUP - C

# (Long Answer Type Questions)

Answer any three of the following.  $3 \times 15 = 45$ 

- 7. a) Explain why Layered architecture is preferred in communication.
  - b) Explain OSI model in detail.
  - c) State the difference between OSI and TCP/IP model.
- 8 a) What are the major drawbacks of X.25 protocol?
  - b) What are the advantages of ATM based network?
  - c) Describe IEEE 802.3 Ethernet LAN architecture.

4 + 4 + 7

- 9. a) What are classful and classless addressing?
  - b) Discuss Class A, Class B, Class C, Class D and Class E addresses in ranges in decimal dot notations with examples. 5 + 10
- 10. a) Describe the format of ATM cell.
  - b) What is the relation between TPs, VPs and VCs?
  - c) How does NNI differ from UNI?

6 + 5 + 4

- 11. a) Describe 802.3 MAC frame format.
  - by Explain the following LAN technology in brief:
    - (i) Token ring
    - (iii) Token bus.

7 + (4 + 4)

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