COPYRIGHT RESERVED End Sem(III) — BCA (CC - 7)

2021

Time: 3 hours

Full Marks: 60

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

The figures in the margin indicate full marks.

Answer from both the Groups as directed.

Group - A

- Select most appropriate answer from given choices:
 - (a) Which type of topology is best suited for large businesses which must carefully control and coordinate the operation of distributed branch outlets?
 - (i) Ring
 - (ii) Local area
 - (iii) Hierarchical
 - (iv) Star

SQ - 96/3

(Turn over)

	· ·		
"Pa	rity bits" are used for v	which of the	
(i)	Encryption of data		
(ii)	To transmit faster		
(iii)	To detect errors		
(iv)	To identify the user		
Tra	nsport layer receives data	in the form of	
(i)	Packets		
(ii)	Byte streams		
(iii)	Bits stream		
(iv)	Both packets and Byte str	eam	
In OSI model Addressing, accounting and			
routing functions of the system are provided			
by.			
(i)	Physical layer		
(ii)	Data layer		
(iii)	Network layer		
(iv)	Transport layer		
6/3	(2)	Contd.	
	follo (i) (ii) (iii) (iv) (iii) (iv) (iii) (iv) (iv	(iii) To transmit faster (iii) To detect errors (iv) To identify the user Transport layer receives data (i) Packets (ii) Byte streams (iii) Bits stream (iv) Both packets and Byte str In OSI model Addressing, accrouting functions of the system by (i) Physical layer (ii) Data layer (iii) Network layer (iv) Transport layer	

(e)	Main function of the data link layer is :			
	(i)	Hard ware link	k control and media	
	(ii)	Data link control	ol and Media access	
	(iii)		ol and protocol access	
	(iv)	Link Control Pro	tocol	
(f)	A _	is a	device that forward	
	pac	A COLUMN TO SERVICE AND ASSESSMENT OF THE PARTY OF THE PA	etworks by processing	
	the		ation included in the	
	(i)	Router		
wided	(ii)	Bridge		
	(iii)	Firewall		
	(iv)	All of these		
(g)	n TDM slots are further divide		further divided into	
	(i)	Seconds		
Q - 96	/3	(3)	(Turn over)	

to Main function of the data may sever is:
(ii) Frames
(iii) Packets Anil alsw bish
(iv) None of these
(h) Multiplexing technique that swifts each
signal to a different carrier frequency:
Data link control an MQ3 of access
(ii) TDM
(iii) Both (i) and (ii)
(iv) None of these
(i) Application layer is which layer in OSI model?
(i) 1 st layer
(ii) 3 rd layer
(iii) 7 th layer
(iv) 5 th layer
(j) A set of rules that governs data
communication:
(i) Protocols
(ii) Standards
(iii) RFCs
(iv) None of these
2. Define network layer and its functions. 5
SQ - 96/3 (4) Contd.

Group - B

Answer any three questions of the following:

 $15 \times 3 = 45$

- What do you understand by data transmission?
 What are its different medium? Discuss with neat diagram.
- What is topology? With neat diagram, discuss different topologies its advantages and limitations.
- 5. Explain TCP / IP reference model.
- 6. Discuss different networks switching techniques.
- 7. What is meant by Flow Control ? How flow control can be achieved using sliding window technique?

SQ - 96/3 (150) (5) End Sem(III) — BCA (CC - 7)