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BCA(III) — Comp. Net. (303) Core – VII

# 2019

Time 3 hours

Full Marks: 70

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 all the Sections as directed.

#### Section - A

## (Compulsory)

- Choose the correct answer from each of the following multiple choice questions: 2×10 = 20
  - (a) The protocol data unit (PDU) for the application layer in the Internet stack is:
    - (i) Segment
- (ii) Datagram
- √(iii) Message
- (iv) Frame

DY - 9/3

(Turn over)

(b)	Which of the following transport layer					
	protocol is used to support electronic mail?					
	(i)*	SMTP	(ii)	(P		
	(iii)	TCP	(iv)	UDP		
(c)	DHCP server provides to the					
	clier	nt.				
	<b>(</b> i)	Protocol	(ii)	IP Address	5	
	(iii)	MAC Address	(iv)	Network A	ddress	
(d)	Which of the following layer is not network					
support layer?						
	(i)	Transport layer	(ii)	Network la	ayer	
	(iii)	Data link layer	(iv	)- Physical i	ayer	
(e)	For	error detection		is	used by	
	the higher layer protocols (TCP/IP).					
	(i)	Bit-Sum	(ii	) Check-S	um ·	
	(iii)	Data Sum	(iv	v) Error-bit		
(f)	Which of the following is not the possible					
	ways of data exchange?					
	(i)	Simplex	(i	i)* Multiplex	(	
	(iii)	Half duplex	(i	v) Full dup	lex	
		37-40			Canta	
DY - 9/3		(2	)		Contd.	

(g) What is the siz	e of source and destination header?	IP				
(i) 4 bits	(ii) 8 bits					
(iii) 16 bits	ate on selections					
7.005	the following is relia	able				
communicati						
(i) TCP						
(ii) IP						
(iii) UPD						
(iv) All of th	nese					
(i) Which of the following protocol is/are						
	Transport Layer?					
(i) FTP	(ii) TCP					
(iii) UDP	(iv) b & c					
(j) Repeater	operates in which layer of	f the OSI				
(i) Phys	sical Layer (ii) Data Lin	k Layer				
	work Layer (iv) Transpo					
	Section - B					
200						
Answer any	four questions of the follo	$5 \times 4 = 20$				
2. Define any advantages	four Network Topologie s.	s with their				
DY - 9/3	(3)	(Tum over)				

- 3. Define the parallel and serial transmission modes.
- 4. Describe the types of Network.
- 5. Describe the term DNS and HTTP.
  - 6. Describe the network layer protocol of IP Protocol
  - 7. Describe the types of Guided Modin
- What is error recovery protocols ?
  - 9. What is TCP/IP Model?

#### Soction - C

Answer any two questions of the following:

 $15 \times 2 = 30$ 

- Mo. What is multiplexing ? Explain their types.
- Describe the layered architecture of open system interconnection.
- Explain the cocept of error dectection and correction.
- 13. What is switching? Explain their types.

