## 2022

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 Parts as directed.

## Part - A

(Objective Type Questions)

1. Choose the correct answer of the following:

 $1 \times 5 = 5$ 

- (a) TDM stands for \_\_\_\_\_
  - (i) Time Division Multiplexing
  - (ii) Test Division Multiplexing
  - (iii) Information Division Multiplexing
  - (iv) None of these

(b)	What is	HUB?
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- (i) Software
- (ii) Computer device
- (iii) Network
- (iv) None of these
- (c) What does a set of rules define?
  - (i) SMTP
  - (ii) FTP
  - (iii) IMAP
  - (iv) Protocol
- (d) Identify among the following which is mainly used to host website?
  - (i) Mail Server
  - (ii) Web Server
  - (iii) Database Server
  - (iv) None of these
- (e) Identify the layer which provides service to the user:
  - (i) Session layer
  - (ii) Application layer
  - (iii) Presentation layer
  - (iv) Physical layer

2. Fill	up the blanks :	$1 \times 5 = 5$	
(a)	In based network, resou		
	located on central server or a group of	of server.	
(b)	A is a set of rules that co	ontrol the	
	Data Communication.		
(c)	Cable has single	copper	
	conductor at its centre.		
(d)	Cable has extremely high	gh band-	
	width.		
(e)	ISP stands for	5 F	
	Part – B		
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(Short-answer Type Questions)			
3. An	swer any <b>four</b> questions of the follow	ing: 5×4 = 20	
· (a)	What is Network Classification?		
\(b)	- 1 1 11 D - 1 - 4 Owitching		
	TO STANK TO TO STANK TO	M.	
(c)			
(d)		omputo.	
(-)	Network.		
4.5	Explain the WWW and HTTP.		
(B)	Explain the following:		
	(i) Bridges		
	(ii) MODEM	•	
	(iii) Digital Subscriber Line		
GQ - 6	6/3 (3) (Tu	irn over)	

## Part – C (Long-answer Type Questions)

4. Answer any four questions of the following:

 $10 \times 4 = 40$ 

- (a) Describe the TGP/IP Protocol in Computer Network.
  - (b) Differentiate between Parallel and Serial transmission.
  - (c) Describe the Layered Network Architecture with diagram.
  - (d) Differentiate between OSI and TCP/IP Model.
    - (e) Describe the framing and flow control of the Data Link Layer.
    - (f) Explain the following:
      - (i) go-back-n ARQ
        - DMS Protocol
          - (iii) Internet Control Protocol
    - (g) Describe the Routing Algorithm in Network Layer.

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