## MARIAPYII-2024

Tota	al No.	of Questions : 5] SI	EAT No. :
PB831			Total No. of Pages : 2
		[6204]-15	A Maragamani & Big
		M.C.A. (Management)	
		IT 15: NETWORK TECHNOLOG	
		(Revised 2020 Pattern) (Semeste	r-I)
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Time : 2½ Hours] [Max. Marks : Instructions to the candidates:			Max. Marks : 50
	1)	All questions are compulsory.	.5.
	2)	All questions carry equal marks.	<u>S</u>
	3)	Draw neat diagrams wherever necessary.	6
		- A - A - A - A - A - A - A - A - A - A	
Q1)	a)	Explain different Ethernet standards in detail.	[4]
	b)	Describe TCP/IP model in brief	[6]
		OR O	
	a)	Explain wireless LAN access Technique-CSMA	/CA [4]
	b)	Explain OSI model in detail.	[6]
Q2)	a)	Draw and explain IPV4 Packet format.	<u>_</u> [4]
	b)	The received code word is 110010000111, check	if there is error in the
		code word if divisor is 10101.	6
		OR	S' S'
	a)	For the given class C IP address - 197.223.1	6.1 and subnet mask
		255.255.255.224. Calculate	
		i) Total no. of subnets	S.
		ii) / Total no. of Host IPs/subnet	V
		iii) Total no. of valid Host IPs/subnet	
	1	iv) First and last valid IP for each subnet	[4]
	b)	Describe PPP Protocol with frame format.	[6]

*P.T.O*.

- Q3) a) Find the maximum no. of hosts available on class B IP address with subnet mask 255.255.192, also find maximum no. of subnets available.
  [4]
  - b) Explain any two flow and error control protocols with suitable example.[6]
  - a) Describe UDP connection and UDP service. [4]

OR

- b) Generate the hamming code for the data 10111001 with odd parity. [6]
- Q4) a) What is Cryptography? Enlist its types in detail. [4]
  - b) What is resource records? Explain different resource records in detail.[6]
  - a) What is packet filter firewall? Explain its policies [4]
  - b) What are email protocols? Explain any two email protocols in detail.[6]
- Q5) a) What is IP Routing? Differentiate Interior and exterior routing protocols.[4]
  - b) Write a TCP server, so keep rogram which accept a string from client and sending the response in the form of another string back to the client.[6]

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- a) Explain any one distance vector protocol. [4]
- b) Write chent and server socket programs for simple chat application. [6]

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