P131/CMP506/EE/20240121

Ins	tructi	ons:				
1.						
2.						
3.	Each Sub-question should be answered between 75 to 100 words. Write every questions answer on separate page.					
4.	Que	estion paper of 80 Marks, it will be converted in to your programme structure mar	KS.			
1.	Sol	ve any four sub-questions.				
	a)	Write a short note on 'Protocol'.	5			
	b)	Explain the <i>hybrid network</i> in detail give one example.	5			
	c)	Enlist different networking components (any three). Describe any two of them.	5			
	d)	Explain Tree topology with Advantages and Disadvantages.	5			
	e)	Compare Mesh topology with Star topology.	5			
2.	Solve any four sub-questions.					
	a)	Explain the disadvantages of fiber optic cable.	5			
	b)	Explain different selection criteria used while selecting transmission media.				
	c)	c) Draw a neat sketch and describe the construction of the co-axial cable.				
	d)	Explain the term Layered Architecture with a diagram.	5			
	e)	Explain the following terms:	5			
		i) LAN				
		ii) WAN				
		iii) MAN				
3.	Sol	ve any four sub-questions.				
	a)	Explain the OSI Reference model with a neat diagram.	5			
	b)	What are Unicasting, Multitasking and broadcasting.	5			
	c)	What is Subnet Masking?	5			
	d)	Differentiate IPv4 and IPv6.	5			
	e)	Compare TCP and UDP.	5			

Time: 3 Hours

4.	Solve any	four s	ub-questions.
----	-----------	--------	---------------

4.	Solv	ve any four sub-questions.
	a)	Explain 'Active Attack' on a network. 5
	b)	Explain the term 'Integrity' and 'Accountability' in cyber security. 5
	c)	Explain Five features of a firewall. 5
	d)	What is Virtual Private Network? 5
	e)	Explain the Intrusion Detection System. 5

		.0.
		.V
	,)	The san of
- 0	X.	
KAZ	23-252	1 P131/CMP506/EE/20240121 : 2
30		