Exam Code: 1307 Sub. Code: 46302

2124

B. Voc. (Hardware and Networking) First Semester

HWN-104: Network Fundamentals

Time allowed: 3 Hours

Max. Marks: 40

NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting one question from each Unit.

X-X-X

1.	Write short notes on the following:	
	a) LAN/WAN/MAN	
	b) OSI Reference Model	
	c) IEEE Standards d) NIC	
	UNIT - I	$(4 \times 2 = 8)$
11.	Define Computer No. 111	4
	Define Computer Network. What are its characteristics? Explain in brief advantages and disadvantages of Computer Network.	(8)
ш.	Define Network Topology. Explain in brief various network topologies.	(8)
	UNIT – II	
IV.	Explain TCP/IP Reference Model. Draw diagram and explain functions of each	
	layer of TCP/IP Model.	(8)
v.	Define transmission media. Name and explain its types. Explain guided transmission media.	(0)
	transmission media.	(8)
	UNIT - III	
VI.	Define networking protocols. What are its types? Explain any four networking	(0)
	protocols in brief.	(8)
VII.	Explain the following networking devices:	
	a) Hub	
	b) Router	
	c) Bridge	(4 X 2 = 8)
	d) Repeater	(4 X 2 - 0)
	UNIT - IV	
VIII.	Explain the following user management tasks:	
	a) Adding User	
	b) Setting account restrictions for user	
	c) Deleting the user d) Renaming an account	(2 X 4 = 8)
IX.	What is an IP Address? What is its format? Explain in brief classes of IP Address.	(8)