1-Jan-2024   10:30 am - 01:30 pm   1T01037 - B.E.(Electronics and Telecommunication)
(SEM-VII)(Choice Base Credit Grading System) (R- 19) (C Scheme) / 42480 - INTERNET
COMMUNICANTION ENGINEERING (DLOC - IV)
QP CODE: 10038760

Time: 3Hours   **[Marks:80]**

N.B.:   **(1) Question No 1 is Compulsory.**
              (2) Attempt any three questions out of the remaining five.
              (3) All questions carry equal marks.
              (4) Assume suitable data, if required, and state it clearly.

1		Attempt **any FOUR**	[20]
	a	Discuss some characteristics of real -time audio/video communication.	
	b	Define and explain Internet of Things (IoT).	
	c	What is the need of Firewall for Internet Security?	
	d	Explain S/MIME mail protocol.	
	e	Compare OSI and TCP/IP protocol suite.	
2	a	Explain DNS query and response message format.	[10]
	b	Write short notes on JPEG and IPTV.	[10]
3	a	What is Voice over IP? Explain messages and address formats of Session Initiation Protocol (SIP)? How a simple session of VOIP happen using SIP?	[10]
	b	Explain IoT protocol layer diagram with protocols at each layer.	[10]
4	a	Draw TCP/IP protocol suite and explain each layer in detail.	[10]
	b	Explain VoIP in details.	[10]
5	a	Explain Distance Vector Multicast Routing Protocol (DVMRP) with its header format.	[10]
	b	Explain Software defined networking in detail with necessary diagrams.	[10]
6	a	Explain Differentiated Services (DS) with respect to Quality of Service(QoS). Explain DS field, per-hop behavior and traffic conditioner with respect to DS.	[10]
	b	Why do you need Network Automation? Explain.	[10]

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