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Total No. of Printed Pages: 1

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B. Sc. (IT) (Semester – 6th)

NETWORK SECURITY

Subject Code: BITE1-666

Paper ID: [130434]

Time: 03 Hours

Maximum Marks: 60

Instruction for candidates:

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

Q1. Attempt the following:

Section – A

(2 marks each)

- a) What is the role of MAC Protocols?
- b) Differentiate between Fast Ethernet and Gigabit Ethernet.
- c) Explain ADSL.
- d) Differentiate between HTTP and HTTPS.
- e) What is the importance of Security in the network?
- f) What is the role of QoS in the network?
- g) Differentiate digital signature from digital certificate.
- h) Explain ESP.

	Section – B	(5 marks each)
Q2.	What is the role of Mobile IP and what is its uses in wireless networks.	
Q3.	Explain Key distribution protocols.	
Q4.	Explain various transaction-oriented applications.	
Q5.	What is the role of neighbor discovery protocol, Explain?	
Q6.	Explain IPv6 in detail.	
	Section – C	(10 marks each)
Q7.	Differentiate between OSI Reference Model and TCP/IP Model.	
Q8.	Explain various Multicast Routing Algorithms.	
Q9.	Write short note on the following:	
	a) SSL	
	b) HIPPI	
	c) IDS	
	d) Firewall	

- i) What is the use of tunnel?
- j) Explain Cable Modem.