MCTE-022

MASTER OF BUSINESS ADMINISTRATION (MBACT)

00484

Term-End Examination

June, 2014

MCTE-022 : VOICE OVER INTERNET PROTOCOL

Time : 3 hours   *Maximum Marks : 100*

Note : *Answer **any five** questions. Each question carries 20 marks.*

1. (a) What is VOIP ? How is it different than **10** PSTN ? Write merits and limitations of VOIP over PSTN.

    (b) Write and explain various VOIP Network **10** components that are required for implementation.

2. (a) What is Session Initiation Protocol (SIP) ? **15** How does it work for controlling voice communication sessions over Internet Protocol (IP) ?

    (b) Explain in brief on various SIP request **5** methods.

3. What are various issues and challenges that are **20** to be addressed for effective implementation of VOIP ?

4. (a) What is VOIP security ? Write and explain in brief on various 'secure VOIP' protocols. **15**

   (b) Explain in brief on various VOIP signalling attacks. **5**

5. (a) Explain on various critical legal issues that are to be addressed in implementation of VOIP in India and Abroad. **15**

   (b) Explain in brief on IEEE 802.11e standard. **5**

6. Explain in detail on the following protocols in implementation aspect of VOIP :

   (a) Media gateway control protocol **10**

   (b) Real-time transport protocol **10**

7. Write short notes on the following : **5x4=20**

   (a) Skype protocol

   (b) Caller ID spoofing

   (c) Smart phone

   (d) Packet switching

   (e) H.323 protocol