Code No: MC1351

MCA V Semester Regular (R13)/Supply Examinations, November- 2016
INFORMATION SECURITY

Time: 3 hours   **Max. Marks: 60**

Answer any FIVE questions
All questions carry equal marks

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1. a) What is a security attack? Explain different types of Security attacks in detail
   b) Discuss about TCP hijacking and UDP hijacking

2. a) What is message authentication? Discuss different approaches of message authentication
   b) Explain DES algorithm in detail

3. a) Compare the principle characteristics of conventional encryption algorithms
   b) Discuss different cipher block modes of operations

4. a) What is Kerberos? Explain Kerberos realms and multiple Kerberos
   b) Discuss X.509 authentication service in detail

5. a) Explain RSA algorithm with example
   b) Discuss S/MIME

6. a) Explain IP Sec authentication service for transport and tunnel modes
   b) What are various web security threats? Explain

7. a) Explain the following PGP services in detail
      i.   Authentication
      ii. Confidentiality
      iii. Compression
      iv. E-mail compatibility
   b) What is Fire wall? Explain the Firewall design principles

8. a) Explain Network management protocol architecture
   b) What is Intrusion Detection? Discuss different approaches to Intrusion Detection

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