

- b) Explain single round of DES. (07)
- Q-5 Attempt all questions (14)**
- a) Discuss the possible approaches to attack the RSA algorithm. Also discuss various mathematical and timing attacks for RSA algorithm. (07)
- b) Explain HMAC algorithm. (07)
- Q-6 Attempt all questions (14)**
- a) Explain SSL architecture. (07)
- b) What is digital signature? Explain hash code base digital signature. (07)
- Q-7 Attempt all questions (14)**
- a) What are the five principal services provided by PGP? Why does PGP generate signature before applying comparison? (07)
- b) Explain process of MD5 algorithm. (07)
- Q-8 Attempt all questions (14)**
- a) What are the benefits from IPSec? Mention the most important documents of IPSec along with their significance. (07)
- b) Briefly explain Diffie Hellman Key exchange with an example (07)

