Cyber Forensics

(CS-552)

Assignment--2

- 1. Analyze how is the Security Association used in the following parameters:
 - (a) Security Policy Database
 - (b) Security Association Database
 - (c) Transport Mode SA
 - (d) Tunnel Mode SA
- **2.** Explain in detail about SSL Handshaking Protocol between a Server and Client Connection with an appropriate diagram.
- **3.** Explain S/MIME and the general syntax it uses to support different content types.
- **4.** What is PGP? What key size is allowed in PGP? How does PGP provide encryption and authentication?
- **5.** Draw the OSCAR framework for network forensics methodology and explain the steps involved.
- 6. A company named 'Alpha' has noticed many suspicious entries and IP addresses while observing the log records. Further, some clients have reported that they have been receiving a message prompt, redirecting them to a payment gateway that does not look genuine. You are now the forensic investigator. Explain:
 - (a) How will you ascertain if malware activity has been taken place or malware is present in the systems?
 - **(b)** How will you disinfect malware-affected machines?
 - (c) How will you ensure that the malware activity has been not spread to all other systems in the network?
 - (d) Perform forensic investigation and trace the causes for the incidents.