

Time: 3 Hrs.]

- Instructions :** (1) All questions are compulsory.
(2) Illustrate your answers with neat sketches wherever necessary.
(3) Figures to the right indicate full marks.
(4) Assume suitable data if necessary.
(5) Preferably, write the answers in sequential order.

1. (a) Attempt any **THREE** of the following : [12]
(i) Write benefits of VPN.
(ii) Write a note on Web Server.
(iii) Write a note on DMZ - DeMilitarized Zone.
(iv) Why e-mails are preferred over snail mail? Enlist fields of RFC-822 for e-mail.
(b) Attempt any **ONE** of the following : [6]
(i) How PEM is used for email model?
(ii) Explain digital signature with advantages and disadvantages.
2. Attempt any **TWO** of the following : [16]
(a) Explain role of biometrics in security.
(b) How DES works? Explain in detail.
(c) Describe SSL Protocol. At which layer of OSI it works. Draw and explain in brief SSL Protocol Stack.
3. Attempt any **FOUR** of the following : [16]
(a) Compare MD5 and SHA algorithm.
(b) Explain how pretty Good Privacy e-mail security works?
(c) Explain IDS with its types.
(d) Explain Honey Pots with respect to Intrusion Detection.
(e) Explain VPN with a Diagram.
4. (a) Attempt any **THREE** of the following : [12]
(i) Define intruder and state it's any three types.
(ii) What is role based authentication?
(iii) Describe the term virus and its working with example.
(iv) Explain the difference between Active and Passive Computer Security Attack.
(b) Attempt any **ONE** of the following : [6]
(i) Explain different methods of authentication.
(ii) Differentiate between Centralized and decentralized infrastructure.
5. Attempt any **TWO** of the following : [16]
(a) Write a note on Intellectual Property (IP).
(b) Write a note on implementing firewall.
(c) Describe IP security and authentication header mode of IP security with suitable sketch(s).
6. Attempt any **FOUR** of the following : [16]
(a) What is Kerberos? Explain with diagram different servers involved in Kerberos.
(b) Write a note on active directory.
(c) Enlist threats to web security. Describe any three of them in detail.
(d) Why is there a need for Cyber Law?
(e) Write a note on Bug Exploits.

Paper Discussion Schedule for T.Y. Diploma (Sem. V) – All Subjects

Date	Day	Timing	Centres
14 Nov. 2016	Monday	9 a.m. to 11 a.m.	Borivali ,Thane
14 Nov. 2016	Monday	12 p.m.to 2 p.m.	Dadar