

Time : 2 1/2 Hours

Total Marks: 60

N.B.

- 1) All questions are compulsory.
- 2) Figures to the right indicate marks.
- 3) Illustration, depth answers and diagram will be appreciated.
- 4) Mixing of sub-questions is not allowed.
- 5) Each question carries 5 marks.

Q.1 Attempt **Any Two** of the following: **12 Marks**

- a) Explain Principles of Computer security.
- b) What are threats? Explain its types.
- c) Explain various operating system tools to implement security functions.
- d) What are different Security requirement of Databases?

Q.2 Attempt **Any Two** of the following: **12 Marks**

- a) Explain different types of network layer attacks.
- b) What is a firewall? Explain its types.
- c) Write a note in Intrusion Detection System.
- d) Explain SSL/TLS in web server security.

Q.3 Attempt **Any Two** of the following: **12 Marks**

- a) Explain User Authentication in cloud.
- b) Write in brief about data security and access control in cloud.
- c) Discuss the concept of security applied in cloud.
- d) Explain PAAS Availability Management.

Q.4 Attempt **Any Two** of the following: **12 Marks**

- a) Explain mobile system architecture.
- b) Describe Bluetooth Eavesdropping.
- c) Write in brief about Zigbee security and attacks.
- d) What are different vulnerabilities in cellular services.

Q.5 Attempt **Any Two** of the following: **12 Marks**

- a) Explain various factors that can make data sensitive.
- b) What are Kerberos?
- c) Describe virtualization system vulnerabilities.
- d) Explain various attacks on 802.11 networks.
