

Con/5046-07.

(REVISED COURSE)

CD-7342

(3 Hours)

[Total Marks : 100]

- N.B. :** (1) Question No. 1 is **compulsory**.
(2) Attempt any **four** questions from the remaining questions.

1. (a) Distinguish among vulnerability, threat and control using a suitable example. 10
(b) State the reasons why a separate category for computer crime is required when there are existing laws on copyright and patent laws are existing. 10
2. (a) Why covert channels are difficult to be found? Describe the methods which are the standard techniques for locating potential covert channels. 10
(b) What are the possible attacks on passwords? 10
3. (a) Compare the different separation methods used as a basis for protection in OS. State their uses and disadvantages. 10
(b) What are the security features provided in any ordinary operating system? Describe what you understand by a trusted OS. 10
4. (a) Compare any two available designs of multilevel secure databases. 10
(b) List the characteristics of a good firewall implementation. What are the limitations of firewalls? 10
5. (a) Discuss the similarities and differences between signature based IDS and heuristic based IDS. What are the limitations of IDS? 10
(b) What are the possible threats to data in transit in a network? 10
6. (a) Write a useful and effective security policy for a banking organization. 12
(b) What are the problems faced with the copyright protection for computer works? 8
7. Write short notes on (any **two**): 20
 - (a) VPN
 - (b) Denial of Service Attack
 - (c) SSH
 - (d) Computer Criminals.