

Regn. No.

--	--	--	--	--	--	--	--	--



MANIPAL INSTITUTE OF TECHNOLOGY
MANIPAL
(A constituent unit of MAHE, Manipal)

II SEMESTER M.TECH (COMPUTER SCIENCE AND INFORMATION SECURITY)
DEGREE EXAMINATIONS, APRIL-2018
SUBJECT : INTRUSION DETECTION SYSTEMS(CSE 5250)
REVISED CREDIT SYSTEM
DATE: 27-04-2018

TIME:03 HOURS

MAX.MARKS : 50

Instructions to Candidates:

- Answer ALL FIVE FULL questions.
- Missing data, if any, may be suitably assumed.

- | | |
|---|----|
| 1A. Explain Andersons taxonomy for classification of risks and threats to computer systems. Also explain goals for security audit mechanism as per Anderson Report. | 4M |
| 1B. Explain Intrusion Detection Expert Systems Model(IDES) of Denning and Neumann. | 3M |
| 1C. How and why security problems occur in Computer Systems? Explain. | 3M |
| 2A. Explain Autonomous Agents For Intrusion Detection(AAFID) Architecture with Neat Diagram. | 4M |
| 2B. Explain strengths and drawbacks of Statistical Analysis in Intrusion Detection Systems. | 3M |
| 2C. Explain the technical Issues in Reliability of Analysis Engines. | 3M |
| 3A. What are the steps that the general intruders take while carrying out an attack in computer networks? | 4M |
| 3B. Explain with suitable examples, real world challenges of Protocol and Trust Issues in Intrusion Detection Systems. | 3M |
| 3C. Explain the process involved in mapping policy to configurations by users of IDS with suitable example. | 3M |
| 4A. List and Explain security design principles to be used in the design of secure systems. | 4M |
| 4B. Explain Testing Approaches and procedures of Intrusion Detection Systems. | 3M |
| 4C. How the future trends in Technology will affect Intrusion Detection System Monitors? Explain. | 3M |

- 5A. Explain Extrusion Detection with statistical Data with the help of a Network Diagram. 4M
- 5B. Explain the Security Process. How do you express risk with a risk equation? 3M
- 5C. What are the four forms of Network Data that used to implement Network Security Monitoring? Explain. 3M