

Computer Science : Paper III - Elective I- Cyber & Information Security (Network Security).

(2 ½ Hours)

[Total Marks: 60]

- N.B:**
- (1) All questions are compulsory.
 - (2) Figures to the right indicate full marks.
 - (3) Assume additional data if necessary but state the same clearly.
 - (4) Symbols have their usual meanings and tables have their usual standard design unless stated otherwise.
 - (5) Use of calculators and statistical tables are allowed. / If required keep it.

- Q.1 Attempt **any two** of the following (12)
- a) What is Threat? Explain its type 6
 - b) Give the security goals of computer security. 6
 - c) Write a short note on Access Control List (ACL). 6
 - d) What are monitors? Explain different types of monitor. 6
- Q.2 Attempt **any two** of the following (12)
- a) Write short note on Packet Filter firewall. 6
 - b) Write a short note on Web Server Security. 6
 - c) What is IPS? Give its type. 6
 - d) Write a short note on Kerberos. 6
- Q.3 Attempt **any two** of the following (12)
- a) Write a short note on OS-Level Virtualization. 6
 - b) Explain ESX file system security. 6
 - c) What do you mean by user authentication in Cloud? 6
 - d) Write a short note on Access control in cloud. 6
- Q.4 Attempt **any two** of the following (12)
- a) Explain GSM Architecture. 6
 - b) What are different Vulnerabilities in Cellular Services? 6
 - c) Explain the security mechanism used in Wireless Networking. 6
 - d) Give different types of attack against ZigBee. 6
- Q.5 Attempt **any two** of the following (12)
- a) How the Database security is implemented? 6
 - b) Explain the concept of Secure Electronic Transaction (SET). 6
 - c) Enlist the security risk associated in cloud computing. 6
 - d) State the features of UMTS security. 6