Mid Term (Even) Semester Examination June 2025

Roll no..............................

Name of the Course and semester: BCA 6
Name of the Paper: Network Security and Cyber Laws
Paper Code: TBC 602

Time: 1.5 hour   Maximum Marks: 50

Note:
- (i)   Answer all the questions by choosing any one of the sub questions.
- (ii) Each question carries 10 marks.
- (iii) Please specify COs against each question.

Q1.   (10 Marks)
a.   Explain 5 security attacks mapping to basic 5 layers of network architecture in detail.
     (CO1)

                                   OR

b.   Explain the components of set protocol and their contribution in setting up secure transaction in detail.
     (CO2)

Q2.   (10 Marks)
a.   Explain 3 major parts of ISO security architecture which are used by authorize users to make disruption in the network.   (CO1)

                                   OR

b.   Describe the importance of security and the possible countermeasures in application layer detail (CO2)

Q3.   (10 Marks)
a.   Explain the following-
     (i)- birthday attack
     (ii)- session time window
     (iii)- cross site injection
     (iv)- single sign in   (CO1)

                                   OR

b.   Explain pgp (pretty good privacy) concept and radix 64 format requirement in detail. (CO2)

Q4.   (10 Marks)
a.   Explain kerberos and the vulnerability of the authentication process in it. (CO1)

                                   OR

b.   Explain the difference (according to the alert mechanism) in TLS and SSL in detail.(CO2)

Q5.   (10 Marks)
a.   Explain the X.509 directory authentication service and the usability of it in terms of public network.
     (CO1)

                                   OR

b.   Explain the vulnerabilities of wireless network and define how WTLS works to provide the counter-measures to overcome from them. (CO2)