



Mid Term (Odd) Semester Examination October 2024

Roll no..2394081.....

Name of the Course and semester: BTech CSE , III rd

Name of the Paper: Fundamentals of Information Security and Block Chain

Paper Code: TCS 332

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) : CO1

- a. What do you mean by penetration testing? Write the importance and significance of each steps of penetration testing

OR

- b. What do you mean by Zero Trust Model? Write the importance and significance of this model in real life security implementation

Q2. (10 Marks) : CO2

- a. Write the Linux commands to do the following :

- a. To list the content of the directory along with the privileges(long display)
- b. To create and delete an user
- c. To print the user id and group id of an user
- d. To remove an empty directory

OR

- b. Explain the following Terms/commands

- a. Sudo
- b. chmod
- c. cat <filename>
- d. ls -a

Q3. (10 Marks) : CO1

- a. What do you mean by hackers? Explain any three types of hackers.

OR

- b. What are the three Security Goals in Cyber Security? Explain in detail about Authentication and Non-repudiation

Q4. (10 Marks) : CO1

- a. What do you mean by Access Control? Explain about any 4 types of Access Control used in a digital system

OR

- b. What do you mean by Threat in cyber security? How threats are managed, identified and removed in an organization

Q5. (10 Marks) : CO2

- a. Write a shell script program for calculating factorial of a given number

OR

- b. Write a python program to input 5 numbers and print the smallest and highest number