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Roll No. ....

## TCS-391

**B. TECH. (CSE) (THIRD SEMESTER)  
MID SEMESTER EXAMINATION, 2022  
FUNDAMENTAL OF CYBER SECURITY**

**Time : 1½ Hours**

**Maximum Marks : 50**

**Note :** (i) Answer all the questions by choosing any *one* of the sub-questions.

(ii) Each question carries 10 marks.

1. (a) Explain the following commands with three options : 10 Marks (CO2)

(i) rmdir

(ii) chmod

(iii) groupadd

(iv) automating tasks with cron command.

OR

(b) Write a shell script program for computing area for triangle, circle and rectangle using menu driven approach. 10 Marks (CO2)

**P. T. O.**

2. (a) Write a Python program to split a given string(s) into strings if there is a space in the string, otherwise split on commas if there is a comma, otherwise return the list of lowercase letters with odd order (order of  $a = 0$ ,  $b = 1$ , etc.). 10 Marks (CO2)

OR

- (b) Write a program in python to implement conditional statement, list, tuple and user defined functions. 10 Marks (CO2)
3. (a) What do you mean by traditional security models and zero trust model ? How is traditional security model different from by zero trust security model ?

10 Marks (CO1)

OR

- (b) State a method to test the vulnerability of an organization's network security system. Explain the methodology, steps involved and tools to be used for this method.

10 Marks (CO1)

(3)

4. (a) What do you mean by hackers ? Explain any *three* types of hackers.

10 Marks (CO1)

OR

- (b) What do you mean by Defense in Depth (DID) security model ? Explain each layer security concern in detail and mention the advantages of DID model. 10 Marks (CO1)
5. (a) How are black hack hackers different from the white hack hackers ? Draw a relationship between level of risk and level of intelligence between various hackers.

10 Marks (CO1)

OR

- (b) What do you mean by integrity in CIA triad model ? Explain, how integrity, achieved in real life. 10 Marks (CO1)