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TCS–591

B. TECH. (CSE) (FIFTH SEMESTER) MID SEMESTER EXAMINATION, 2022

COMPUTER SYSTEM 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) List the types of attacks. Explain back doors and trap doors attacks. 10 Marks (CO1)

OR

(b) Describe the following attacks with example : 10 Marks (CO1)

(i) Sniffing

(ii) Spoofing

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2. (a) Explain any *four* attacks on Computer System Security. 10 Marks (CO2)

OR

(b) Define zero-day attack. What factors leads to zero-day vulnerability and how can it be exploited ? 10 Marks (CO2)

3. (a) Define access control. Explain different types of access controls. 10 Marks (CO1)

OR

(b) What is sandboxing ? Explain different types of sandbox and isolation techniques. 10 Marks (CO1)

4. (a) Define dirty cow attack. What factor leads to dirt cow attack ? State some measure that should be used to avoid it. 10 Marks (CO2)

OR

(b) What is race condition vulnerability ? How this can be exploited ? Explain with an example. 10 Marks (CO2)

5. (a) Differentiate between buffer overflow and integer overflow. How buffer overflow can be used to attack a system ? 10 Marks (CO1/CO2)

OR

(b) State at least *five* different types of security vulnerability detection tools and how they operate. 10 Marks (CO1/CO2)