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Roll No. ....

**TCS-592**

**B. TECH. (CSE) (FIFTH SEMESTER)**

**END SEMESTER**

**EXAMINATION, Dec., 2023**

**ETHICAL HACKING**

**Time : Three Hours**

**Maximum Marks : 100**

**Note :** (i) All questions are compulsory.

(ii) Answer any *two* sub-questions among  
(a), (b) and (c) in each main question.

(iii) Total marks in each main question are  
**twenty.**

(iv) Each sub-question carries 10 marks.

1. (a) Explain what is Ethical Hacking. Explain  
briefly Phases of Ethical Hacking. (CO1)

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(2)

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- (b) What is the OSI layer Architecture and how does it provide security for networks ? (CO1)
- (c) Consider the IP address is 198.51.100.39/28. From this how can you find the first and the last and the number of addresses in this network ? (CO1)
- 2. (a) Describe Private and Public Key cryptography with proper examples. (CO2)
- (b) Write short notes on : (CO2)
  - (i) Digital Signature
  - (ii) Stegnography
- (c) Mention what are the types of password cracking techniques. (CO2)
- 3. (a) Explain Metasploit Framework in detail. (CO3)
- (b) Write short notes on : (CO3)
  - (i) Reverse TCP Connection
  - (ii) Port Forwarding
- (c) What is Malware ? Explain various types of Malware. (CO3)

(3)

- 4. (a) What is SQL injection in Ethical hacking ? (CO4)
- (b) Explain what is Cross-site scripting and what are the types of Cross-site scripting ? (CO4)
- (c) What is Brute force attack ? Explain how the tool Hydra implements it. (CO4)
- 5. (a) Where are the types of computer based Social Engineering attacks ? Explain what is Phishing ? (CO5)
- (b) Explain what is DOS (Denial of Service attack) ? What are the common forms of DOS attacks ? (CO5)
- (c) What is footprinting in Ethical Hacking ? What is the technique use for footprinting ? (CO5)

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