

T.Y. B. Sc. Comp. Sci (Sem-VI) dt 13/12/2024

[Time: 2.30 Hrs]

[Marks: 75]

Please check whether you have got the right question paper.

- N.B:
1. All questions are compulsory.
 2. Answers to the same question must be written together.
 3. Figures to the right indicate full marks.
 4. Draw neat labelled diagrams wherever necessary.

Q.1 Attempt any four of the following:

20

- A What is a Brute Force attack? Explain its types.
- B Explain in brief Eavesdropping and ways to prevent it.
- C What is Information Security? Explain Asset, Risk, Threat, and Vulnerability with respect to Information Security.
- D What is Access Control? Explain its steps with example.
- E Enlist and explain OWASP Mobile Top 10 in detail.
- F What is an ARP poisoning attack?

Q.2 Attempt any four of the following:

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- A Write a short note on Manual Penetration testing.
- B Describe the implementation of Request using CSRF/XSRF.
- C How is ethical hacking different from security auditing and digital forensics?
- D Explain Internal vs External Penetration Testing.
- E What is scanning? List and explain types of scanning.
- F Explain the following terms: Reconnaissance, Footprinting.

Q.3 Attempt any four of the following:

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- A What is CIA triad? Explain in detail.
- B Write a short note on DNS Poisoning.
- C State the significance of Honeypots with its types.
- D What is password cracking? Explain its techniques and steps to defend.
- E Difference between keylogging & steganography.
- F Explain IDS & IPS.

Q.4 Attempt any three of the following:

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- A Define Phishing, Spoofing, Sniffing, Social Engineering.
- B Differentiate between white box, gray box and black box testing.
- C Explain the three types of hackers.
- D Write a short note on Man-in-the-middle attack.
- E State the significance of Honeypots with its types.
- F Differentiate between Vulnerability Assessment and Penetration Testing.

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