

Course Name : MSCCS

Subject Name : Hacking Techniques

Subject Code : MSCCS-401

Date : 21-02-2026

Time : 03:00PM TO 05:15PM

Max Marks : 70

Section A

Q.-1. Respond to any three of the following questions in brief. (30)

- (1) Discuss cyber crime as an emerging security concern.
- (2) Discuss malware, viruses and ransomware attacks.
- (3) Discuss preventive measures against cyber crimes.
- (4) Discuss the role of law enforcement agencies in cyber crime control.
- (5) Discuss objectives and scope of the IT Act, 2000.

Section B

Q.-2. Write short notes on any four of the following topics. (20)

- (1) What is Rootkits?
- (2) What is Steganography?
- (3) How packet sniffers work?
- (4) What is ARP? Explain how ARP works.
- (5) Explain DNS Cache Poisoning.
- (6) What is MAC Flooding?

Section C

Q.-3. Select the correct response for each of the following questions (10)

(1) Which software manages hardware resources and provides services to applications?

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|-------------|---------------------|
| A) Compiler | B) Operating System |
| C) Loader | D) Assembler |

(2) Scalability of a system refers to its ability to:

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|-----------------------|--|
| A) Reduce cost | B) Increase workload handling capacity |
| C) Eliminate failures | D) Decrease users |

(3) Distributed computing mainly aims to:

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|--------------------------|--|
| A) Centralize processing | B) Improve reliability and performance |
| C) Reduce networking | D) Eliminate servers |

(4) Which model is commonly used in distributed systems?

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|-----------------|------------------|
| A) Peer-to-peer | B) Client-Server |
| C) Both A and B | D) Waterfall |

(5) Cloud computing provides resources on:

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|------------------|--------------------|
| A) Fixed basis | B) On-demand basis |
| C) Offline basis | D) Manual basis |

(6) Which of the following is NOT a cloud deployment model?

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|-----------|-----------|
| A) Public | B) Public |
| C) Hybrid | D) Linear |

(7) Load balancing is used to:

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|-----------------------|-------------------------------|
| A) Increase downtime | B) Distribute workload evenly |
| C) Reduce performance | D) Block users |

(8) Fault tolerance ensures:

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|--------------------------------|--|
| A) System stops during failure | B) System continues operation despite failures |
| C) Manual recovery only | D) Data loss prevention only |

(9) Which parameter measures delay in system response?

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|----------------|-----------------|
| A) Throughput | B) Latency |
| C) Reliability | D) Availability |

(10) Redundancy helps in:

- | | |
|---------------------------------|-------------------------|
| A) Increasing failures | B) Eliminating backups |
| C) Improving system reliability | D) Reducing scalability |

Section D

Q.-4. Indicate whether the following statements are True or False

(10)

- (1) Cloud computing provides scalable computing resources over the internet.
- (2) Fault tolerance improves system reliability.
- (3) Scalability means reducing system capacity.
- (4) Load balancing improves system performance.
- (5) Middleware connects applications with underlying systems.
- (6) High availability systems aim to minimize downtime.
- (7) Cloud deployment models include public, private, and hybrid.
- (8) Latency refers to response delay in a system.
- (9) Redundancy removes single point of failure.
- (10) Advanced computing systems do not require security.
