

Course/Branch : All Branches  
 Subject Name : Computer system security  
 Subject Code : KNC301

Semester : III  
 Max. Marks: 60  
 Time: 120 min

CO-1: Identify the computer security fundamentals.

CO-2: Identify the legal and ethical issues of information security

**Section – A (CO – 1) # Attempt both the questions # 30 Marks**

Q.1: Attempt any **SIX** questions (Short Answer Type). Each question is of two marks. (2×6 = 12 Marks)

- a) State the goals of computer security.(BKL: K1 Level).
- b) Define control Hijacking.(BKL: K1 Level).
- c) Define types of computer security.(BKL: K1 Level).
- ☒ d) Define confidentiality policies.(BKL: K1 Level).
- e) Explain various computer system vulnerabilities.(BKL: K2 Level).
- f) Define Confidentiality and Integrity in terms of security.(BKL: K1 Level).
- g) Explain Zero day Attack vulnerability.(BKL: K2 Level).

Q.2: Attempt any **THREE** questions (Medium Answer Type). Each question is of 6 marks. (3×6 = 18 Marks)

- a) Discuss: Buffer overflow attack(BKL: K2 Level).

Integer overflow attack

Format string vulnerabilities

- ☒ b) Explain run time and platform defense from control hijacking.(BKL: K2 Level).
- ☒ c) Describe advanced control hijacking attacks.(BKL: K2 Level).
- d) Explain Error 404 hacking digital India part 1 chase.(BKL: K2 Level).
- ☒ e) Describe confinement Principles.(BKL: K2 Level).

**Section – B (CO – 2) # Attempt both the questions # 30 Marks**

Q.3: Attempt any **SIX** questions (Short Answer Type). Each question is of two marks. (2×6 = 12 Marks)

- a) State Detour Unix ID.(BKL: K1 Level).
- ☒ b) Explain DNS and Phishing attack(BKL: K2 Level).
- ☒ c) State web server and system attack.(BKL: K1 Level).
- d) Explain system call interposition.(BKL: K2 Level).
- e) Define different three types of UIDS. (BKL: K2 Level).
- ☒ f) Explain Canaries and types of Canaries.(BKL: K2 Level).
- ☒ g) Explain Platform Defense.(BKL: K2 Level).

Q.4: Attempt any **THREE** questions (Medium Answer Type). Each question is of 6 marks. (3×6 = 18 Marks)

- a) Describe Sample attacks.(BKL: K2 Level).
- ☒ b) Differentiate DAC and MAC.(BKL: K4 Level).
- ☒ c) Describe the approaches in confinement.(BKL: K2 Level).
- ☒ d) Write short notes on any 3:(BKL: K1 Level).
  - i)- DOS attack
  - ii)- Phishing attack
  - iii)- How can you protect your system from virus?
  - iv)- Injection Attack
- e) Explain in detail diagrammatically: Bell-LaPadula Model(confidentiality model).(BKL: K2 Level).