

B.Sc. (Data Science) NEP - Semester-III
BSCDS035 - Operating System & Information Security

P. Pages : 1

Time : Two Hours



GUG/W/24/16143

Max. Marks : 40

Either:

- | | | | |
|----|----|--|---|
| 1. | A) | Explain various operating system functions. | 4 |
| | B) | Describe various types of operating system with example. | 4 |

OR

- | | | | |
|--|----|---|---|
| | C) | Explain Time sharing system with example. | 4 |
| | D) | Explain various types of scheduling algorithm with example. | 4 |

Either:

- | | | | |
|----|----|---|---|
| 2. | A) | Describe virtual memory in details. | 4 |
| | B) | Differentiate between paging and segmentation with example. | 4 |

OR

- | | | | |
|--|----|--|---|
| | C) | Explain Internal access Authorization in operating system. | 4 |
| | D) | Explain policy mechanism in operating system management. | 4 |

Either:

- | | | | |
|----|----|---|---|
| 3. | A) | Explain elementary cryptography with example. | 4 |
| | B) | Explain various encryption algorithm. | 4 |

OR

- | | | | |
|--|----|-------------------------------------|---|
| | C) | Explain various uses of Encryption. | 4 |
| | D) | Describe AES Encryption Algorithm. | 4 |

Either:

- | | | | |
|----|----|---|---|
| 4. | A) | Describe Database Security with example. | 4 |
| | B) | Explain multilevel database with example. | 4 |

OR

- | | | | |
|--|----|--|---|
| | C) | Explain various Threats in network. | 4 |
| | D) | Explain various Ethical issues in computer security. | 4 |

- | | | | |
|----|----|---|---|
| 5. | | Solve all questions. | |
| | A) | Explain Deadlock with example. | 2 |
| | B) | Describe Device Management. | 2 |
| | C) | Write a note on Non-malicious program errors. | 2 |
| | D) | Explain various issues of software failures. | 2 |
