

FACULTY OF ENGINEERING**B.E. 4/4 (CSE/IT) I-Semester (Suppl.) Examination, May / June 2019****Subject : Information Security****Time : 3 Hours****Max. Marks: 75****Note: Answer all questions from Part-A & any five questions from Part-B.****PART – A (25 Marks)**

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| 1 | What are the critical characteristics of information? | 3 |
| 2 | Differentiate between virus & worms. | 3 |
| 3 | What are the general causes of unethical and illegal behaviour? | 3 |
| 4 | How transport mode is used in VPN? | 2 |
| 5 | What is vulnerability? | 2 |
| 6 | What is message digest? | 2 |
| 7 | Define data confidentiality. | 3 |
| 8 | What are requirements of digital signature? | 3 |
| 9 | What are the risk control strategies? | 2 |
| 10 | What is due care? | 2 |

PART – B (50 Marks)

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| 11 | Differentiate between threat and attack. Explain different types of attacks. | 10 |
| 12 | Discuss the following aspects of continuity strategies:
a) Incident Response
b) Disaster Recovery
c) Business Continuity | (4+3+3) |
| 13 | What are the different firewall architectures? Explain | 10 |
| 14 | a) Write about RSA algorithm with an example.
b) What are the 3 basic operations in cryptography? | 5
5 |
| 15 | What are the different protocols used for secure communication? | 10 |
| 16 | a) What is the difference between configuration management and change management?
b) What are the primary objectives of internal monitoring domain? | 5
5 |
| 17 | Write a short note on:
a) Security Education, Training and Awareness
b) Biometric control
c) Venum Cipher | 10 |
