## MODEL QUESTION PAPER - II

*Time: 03 Hours*                                                    *Maximum Marks: 100*

*Instructions to candidates:*

1. Answer all questions from Part A. Part A questions should be answered in first three pages of the answer book only.
2. Answer FIVE full questions from Part B. In Part B question number 2 is compulsory. Answer any one full question from 3 and 4, 5 and 6, 7 and 8, and 9 and 10.

### PART-A

| 1 | 1.1 | The term_____ which denotes that only authorized users can access the information. | 01 |
| | 1.2 | Who commits cyber-crimes. Give an example. | 02 |
| | 1.3 | In ethical hacking and cyber security, there are _____ types of scanning. | 01 |
| | 1.4 | While using the internet on your home computer a pop-up window keeps appearing in the middle of your screen.  Identify type of Social Engineering attack. | 01 |
| | 1.5 | Protecting information and information systems from unauthorized access, use, disclosure, disruption, modification, or destruction is known as_____ | 01 |
| | 1.6 | Special program which can detect and remove viruses from computer is called_____ | 01 |
| | 1.7 | _____ is a technique where every possible combination of letters, numbers, and symbols to guess the password. | 01 |
| | 1.8 | Anytime an unknown device is used to sign into your Google account, the user must provide a verification code in addition to the password.  This is known as_____ | 01 |
| | 1.9 | Windows _____is software designed to detect and remove malware and it is built in Windows operating systems. | 01 |
| | 1.10 | International Mobile Equipment Identity (IMEI) number contains ____ digits | 01 |
| | 1.11 | _____fraud happens when a criminal use stolen or fake documents to open an account in someone else's name. | 01 |
| | 1.12 | _____ is the use of deception to manipulate individuals into divulging confidential or personal information that may be used for fraudulent purposes. | 01 |
| | 1.13 | UPI stands for _____ | 01 |
| | 1.14 | The _____ is a small device that scans a credit/debit card and stores the information contained in the magnetic strip. | 01 |
| | 1.15 | _____ is the type of physical social engineering, in which  attacker can gain information by hearing a discussion between two people, or by reading emails and listening to telephonic conversation. | 01 |
| | 1.16 | _____is a technique of hiding secret messages in a document file, image file, and program or protocol etc. such that the embedded message is invisible and | 01 |

| | | can be retrieved using special software. | |
|---|---|---|---|
| | 1.17 | YouTube is a service, owned by _____ | 01 |
| | 1.18 | The decoding of the complex code to original text using key is known as _____ | |
| | 1.19 | VPN stands for _____ | 01 |

## PART-B

### UNIT-I

| 2 | a | Define information security. Explain History, principle, and evolution of Information Security. | 08 |
|---|---|---|---|
| | b | List and briefly explain the preventive measures required to avoid cyber frauds. | 08 |

### UNIT-II

| 3 | a | Define passive attack. List and briefly explain the tools used in passive attack. | 10 |
|---|---|---|---|
| | b | Explain the categories of cybercrime. Give an example. | 06 |
| | | **OR** | |
| 4 | a | Define Cyberstalking. Explain different types of fraud techniques. | 10 |
| | b | List and explain the different types of social Engineering. | 06 |

### UNIT-III

| 5 | a | What are social networks ? List and explain the advantages of social networking. | 08 |
|---|---|---|---|
| | b | Explain the following in detail.<br>  i.    Social media marketing<br>  ii.   Security issues in social media | 08 |
| | | **OR** | |
| 6 | a | Explain the best practices for the use of social media | 08 |
| | b | List and briefly explain terms related to cyber law as per IT act 2000. | 08 |

### UNIT-IV

| 7 | a | List and explain the advantages and security measures of UPI. | 08 |
|---|---|---|---|
| | b | What is a digital wallet? Explain types of digital wallets. | 08 |
| | | **OR** | |
| 8 | a | List the benefits of digital payments. Explain different modes of digital payments. | 10 |
| | b | Explain the following in detail.<br>  i.    Unstructured Supplementary Service Data (USSD)<br>  ii.   Aadhar enabled payments | 06 |

### UNIT-V

| 9 | a | What is network segmentation? Explain the working principle of network segmentation. | 08 |
|---|---|---|---|

| | | | |
|---|---|---|---|
| | b | Explain the following in detail.<br><br>   i.     Brute force attack<br><br>   ii.    Dictionary attack | 08 |
| | | **OR** | |
| 10 | a | Define firewall. Explain the working principle of firewall. | 08 |
| | b | Explain the following in detail.<br><br>   i.     Mobile device security<br><br>   ii.    Password Policy | 08 |