

Cyber Security Test Pattern

Table of Contents

1. About Test Structure	1
2. General Aptitude Test	1
2.1. Verbal Aptitude – 30%.....	1
2.2. Quantitative Aptitude – 35%	2
2.3. Data Interpretation and Logical Reasoning – 35%.....	2
2.3.1. Data Interpretation	2
2.3.2. Logical Reasoning	2
3. Technical Aptitude Test for Cyber Security	2
3.1.1. Computer Networks	2
3.1.2. Basics of Computer Programming	3

1. About Test Structure

Type: Multiple Choices with 4 options per question

Mode: Online Test

Duration: 2.5 hours

Marking Scheme: +1 for every correct answer

Negative Marking for General Aptitude test: -1/3 for every wrong answer.

Cyber Security:

Part 1 - 40 questions 60 minutes general aptitude test.

Part 2 - 60 questions 90 minutes technical aptitude test.

Students completing the part1 test early will able to move to next section after 45 minutes of the start of the test.

Maximum time allowed for part1 60 minutes after which the test automatically shifts part2.

2. General Aptitude Test

2.1. Verbal Aptitude – 30%

- Grammar Concepts
- Antonyms and Synonyms
- Fill in the blanks
- Error Correction
- Reading Comprehension

- Idioms and Phrases
- Statement and Argument
- Verbal Reasoning
- Critical Reasoning
- Jumbled Sentences

2.2. Quantitative Aptitude – 35%

- Number System
- Speed and Distance
- Ratio Proportion Variation
- Averages Mixtures and Allegation
- Time and Work
- Percentages
- Profit and Loss
- Simple and Compound Interest
- Fractions
- Partnership
- Progression
- Permutation and Combination
- Probability
- Geometry and Mensuration
- Surds and Indices
- LCM and HCF
- Pipes and Cistern
- Height and Distance
- Set Theory

2.3. Data Interpretation and Logical Reasoning – 35%

2.3.1. Data Interpretation

- Venn Diagram
- Bar Graph
- Line Graph
- Pie Charts
- Tabular Data
- Net Diagrams

2.3.2. Logical Reasoning

- Cubes and Dices
- Day Sequence
- Coding and Decoding
- Clocks Calendar and Age
- Puzzles
- Direction and Senses
- Series
- Input and Output
- Cause and Effect
- Statements and Arguments
- Decision Making
- Data Sufficiency
- Analogies
- Symbols and Notations
- Logical Problems
- Logical Deductions
- Syllogism

3. Technical Aptitude Test for Cyber Security

3.1.1. Computer Networks

1. Computer Networks

- i. Intranet
- ii. Internet

2. IP Address concepts

- i. Private IP
- ii. Public IP
- iii. Static IP
- iv. Dynamic IP

3. MAC Address Concepts

- i. OUI
(Organizationally Unique Identifier)
- ii. Network Interface Controller

4. Network Components

- i. Modem
- ii. Hub Switch
- iii. Router
- iv. Firewall

5. Network Topologies

6. OSI Reference Model (7 Layers)

7. Basic Network Commands

- i. IPCONFIG
- ii. PING
- iii. TELNET

8. Basic Protocols

- i. TCP
- ii. UDP
- iii. FTP
- iv. SMTP
- v. HTTP
- vi. SSL
- vii. DNS

9. Abbreviations

- i. DOS
- ii. DDOS
- iii. MITM
- iv. TCP
- v. WWW
- vi. IP

3.1.2. Basics of Computer Programming

1. **Identify the computer programming language**
 - i. Identify web programming languages
 - ii. Identify mobile programming languages
 - iii. Identify Databases
2. **Memory Units**
 - i. Bits
 - ii. Bytes
 - iii. Kilobyte
 - iv. Megabyte
 - v. Gigabytes
 - vi. Terabyte
3. **Application development life cycle**
 - i. Source code
 - ii. Compilation
 - iii. Syntax Error
 - iv. Execution
 - v. Debugging
 - vi. Exception Handling
4. **Basic Data types and Variables**
 - i. Int
 - ii. Float
 - iii. String
 - iv. Char
 - v. Long
5. **Functions/Methods**
6. **Assembler & Disassembler**
7. **Cyber Security Concepts**
8. **Strong vs Weak password**
9. **Hacking & Step authentication**
 - i. Hacking
 - ii. Ethical Hacking
 - iii. OTP
 - iv. Email
 - v. Internet Banking
10. **Hacker & it's types**
11. **Threat**
12. **Vulnerability**
13. **Cyber crimes**
14. **Cyber Space**
15. **Antivirus**
 - i. List of Antivirus available (Names)
16. **Windows Defender**
17. **Cryptography**
 - ii. AES
 - iii. DES
 - iv. RSA
18. **Basics of Digital Forensics**
 - i. Digital Forensics Definition
 - ii. List of Digital Evidence
 - iii. Volatile and Non-Volatile memory
19. **File Attribute**
 - i. Creation
 - ii. Modification
 - iii. Last accessed
20. **Browser history**
21. **DOS command used to find list of users in a PC**
22. **How to access task manager in a pc**
23. **Logs**
24. **Latest Hacking Trends & Major Incidents**
 - i. WannaCry ransomware
 - ii. Recent Cyber Incidents
 - iii. Malware & it's types
 - iv. Social Media crimes
 - v. Banking & Matrimonial frauds
 - vi. Debit / Credit card frauds
 - vii. Cyber war
 - viii. 8. Data searching