CCCS-1-02T Fundamental of Information Security

Total Marks: 100
External Marks: 70
Internal Marks: 30
Credits:4
Pass Percentage: 40%

Objective
Objective of this paper is to explain the basic Fundamental of Information Security.

Section-A

Unit I: Internet: Address Scheme, IPV4, IPV6, IP Subnet and address assignment, Routing, Modifications to IP addresses, Classification of ISP, DNS, WWW,

Unit II: e-Gov: Aim, Stages, Models: Broadcast, Comparative Analysis's critical Flow, E-advocacy, Interactive service, e-Governance: Evaluation and Maturity e-readiness, e-comm: Business Models, Infrastructure, Payment Methods.

Unit III: Cybercrimes: Classification, Malware: Adware, Spyware, Browser Hijacking, Virus, Worm, Trojanhorse, Scareware , Kinds of Cyber Crime, Organised Crime, IT Act 2002

Unit IV: Cyber Crime Case Studies: Cyber Stalking, Ransomware, Silkroad, Phishing, Scam,

Section-B

Unit V: Information Security, models for discussing security issues, Parkerian Heaxd, Attacks, Threats, vulnerability and Risk, Control, Defense in Depth

Unit VI: Information Security Management, Imperatives and Incentives, Information Assets, Planning an Information Security Management System (ISMS), ISMS Documentation, Risk Assessment and Assets Identification, The PDCA cycle

Unit VII: Electronic Commerce: Business Model and Revenue Model, Concerns and Security Solution, Identification, Authentication, Authorization, Secure Electronic Transaction, Security Precautions, Industry Standards

Unit VIII: Antivirus Software, Issues and Concerns, Firewall, Computer Forensics, Steganography, Computer Security and Ethics, Ethical Issues, Information Privacy and Ethics, Privacy issues in Modern Data Management,