

Seat No. : _____

AJ-127

April-2016

M.Sc., Sem.-VIII

Information Security

Time : 3 Hours]

[Max. Marks : 100

1. (a) Answer the following : (any 2) **10**
- (1) What is security ? Explain types of security.
 - (2) Write and explain components of information system.
 - (3) What is auditing ? Explain the role of auditing in control process.
- (b) Define the following : **10**
- (1) MULTICS
 - (2) Attack
 - (3) Threat Agent
 - (4) Spoofing
 - (5) CIA Triangle
2. (a) Answer the following : **15**
- (1) Explain classification of information.
 - (2) Explain network category, platform category and physical component of security infrastructure.
 - (3) Explain physical security.
 - (4) What is data integrity ?
 - (5) What is Social Engineering ?
- (b) Explain any Clark-Wilson security model in detail. **5**
3. (a) Define the following : (any 5) **10**
- (1) Strategic Plan
 - (2) Corporate Governance
 - (3) Wireless IDPS
 - (4) Information Security Blueprint
 - (5) Security perimeter
 - (6) Information security policy

- (b) Answer the following : (any **one**) **10**
- (1) What is issue specific security policy ? Explain three approaches used to create and manage ISSP.
 - (2) What is data warehouse control ? Explain all phases of data warehouse.
4. (a) Answer the following : (any **2**) **10**
- (1) What is VPN ? Explain transport mode and tunnel modes in VPN.
 - (2) What is access control ? Explain DAC, NDAC and MAC.
 - (3) Write and explain components of public key infrastructure.
- (b) Explain the following : **6**
- (1) Static filtering in firewall
 - (2) Smart Card
 - (3) Security protocols
- (c) Define Kerberos. How to initiate a Kerberos session ? **4**
5. (a) Answer the following : (any **two**) **10**
- (1) Write and explain common vulnerabilities to web application.
 - (2) Explain approaches to input handling.
 - (3) Explain core security problem with any two key problem areas.
- (b) Answer the following : **10**
- (1) Explain parameters of SSL session state.
 - (2) Write and explain SET Participants.
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