

**MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL**

Paper Code : BCAD501H Information Security

Time Allotted : 3 Hours

Full Marks :70

*The Figures in the margin indicate full marks.**Candidate are required to give their answers in their own words as far as practicable***Group-A (Very Short Answer Type Question)**

1. Answer any ten of the following :

[1 x 10 = 10]

- (i) Lack of access control policy is a _____
- (ii) IPsec provides security at the _____ layer.
- (iii) In _____ attacks, the attacker manages to get an application to execute an SQL Query created by the attacker.
- (iv) SET uses the concept of _____
- (v) Audit Trail is an example of _____ control
- (vi) Application gateways are _____ than packet filters.
- (vii) RSA _____ be used for digital signature.
- (viii) _____ is not an Audit performed during the system development process
- (ix) Key management in IPsec is done by _____
- (x) Which of them is an example of grabbing email information?
- (xi) To perform IS audit IS Auditor must possess a good skillset; in reference to this identify the wrong statement _____
- (xii) In order to allow multiple hosts to communicate with a single external host without compromising on the IP address range, the router needs to add details of the _____ to its translation tables.

Group-B (Short Answer Type Question)

Answer any three of the following

[5 x 3 = 15]

- 2. What is spoofing and sniffing? [5]
- 3. Explain information assurance model in cyber security? [5]
- 4. Explain six pillar of Information security management? [5]
- 5. How is circuit gateway different from application gateway? [5]
- 6. What is security audit? Explain security loss and standard of cyber security? [5]

Group-C (Long Answer Type Question)

Answer any three of the following

[15 x 3 = 45]

- 7. What is the purpose of Information security? Describe 3 objectives of Information security? Describe different types of attack? [5+5+5]
- 8. Short note on Cyber Security Audit. Compare the information hiding and cryptography. [8+7]
- 9. Explain Classification of DoS attack. What are the type of DoS attack and explain all type of DoS? Differentiate between DoS and DDoS? [5+5+5]
- 10. What is cross-site scripting and how it can be prevented? What is the difference between IDS (Intrusion Detection System) and IPS (Intrusion Prevention system)? [8+7]
- 11. What is active and passive attack? What is DoS Attack? Explain ARP Spoofing with diagram? [4+5+6]

*** END OF PAPER ***