

**P.G. DIPLOMA IN INFORMATION SECURITY
(PGDIS)**

Term-End Examination

December, 2015

MSEI-023 : CYBER SECURITY

Time : 2 hours

Maximum Marks : 50

- Note :** (i) *Section A - Answer all the objective type questions.*
- (ii) *Section B - Answer all very short answer type questions.*
- (iii) *Section C - Answer two out of three short answer type questions.*
- (iv) *Section D - Answer two out of three long questions.*

SECTION - A

(Attempt all objective questions.)

1. A distributed database has which of the following advantages over a centralized database ? 1
- (a) Software cost (b) Software complexity
(c) Slow response (d) Modular growth
2. Data security threats include : 1
- (a) hardware failure
(b) Privacy invasion
(c) Fraudulent manipulation of data
(d) All of the above
3. The last address of IP address represents 1
_____ address.

4. Sniffing is a technique that could be used to capture network user _____. 1
5. Computers which stores the different web pages is called as _____. 1
6. Which of the following is the greatest risk when it comes to removable storage ? 1
- (a) Integrity of data
 - (b) Availability of data
 - (c) Confidentiality of data
 - (d) Accountability of data
7. When a system completely secure ? 1
- (a) When it is updated
 - (b) When it is assessed for vulnerabilities
 - (c) When all anomalies have been removed
 - (d) Never
8. Which of the following items are not necessary for client/server ? 1
- (a) Assure that tools will connect with middle ware.
 - (b) Understand the requirements.
 - (c) Determine network bandwidth capabilities.
 - (d) Include the use of a file server.
9. A distributed database can use which of the following strategies ? 1
- (a) Totally centralized at one location and accessed by many sites.
 - (b) Partially or totally replicated across sites.
 - (c) Partitioned into segments at different sites.
 - (d) All of the above
10. A _____ is structured collection of data. 1

SECTION - B

(Attempt **all** the very short answer type questions)

- | | | |
|-----|--|---|
| 11. | List out the ACID properties. | 2 |
| 12. | What are the characteristics of a client/server architecture ? | 2 |
| 13. | Explain the significance of cluster table. | 2 |
| 14. | What is Distributed Processing ? | 2 |
| 15. | What is meant by security attacks ? | 2 |

SECTION - C

(Attempt **two** out of **three** short answer type questions)

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|-----|--|---|
| 16. | Explain the architecture of Oracle Database Management System. | 5 |
| 17. | What is the purpose and uses of Trojan Horse ? | 5 |
| 18. | Explain the role of operating system in network security. | 5 |

SECTION - D

(Attempt **two** out of **three** long questions)

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|-----|---|----|
| 19. | Discuss the advantages of three - tier client server architecture over two - tier client server architecture. | 10 |
| 20. | What are the different security issues in the Social Networking Sites ? | 10 |
| 21. | What do you mean by intruder ? Explain the various intrusion techniques in detail. | 10 |
