Roll No. ☐☐☐☐☐☐☐☐☐☐☐☐ Total No. of Pages : 02

Total No. of Questions : 18

B.Tech.(IT) (2012 to 2017)   (Sem.–6)
# INFORMATION SECURITY AND RISK MANAGEMENT
Subject Code : BTIT-602
M.Code : 71172

Time : 3 Hrs.   Max. Marks : 60

INSTRUCTION TO CANDIDATES :
1. **SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.**
2. **SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.**
3. **SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.**

SECTION-A

Answer briefly :

1. What is role of cryptography?

2. What are worms in Information Security?

3. Discuss *SHA2* hash function.

4. What are digital signatures?

5. Give the role of Key management in cryptography.

6. Define message integrity.

7. What is the goal of a *DoS* attack?

8. Write the purpose of *MD4.*

9. What is threat assessment?

10. Write the syntax of RSA algorithm.

SECTION-B

11. How firewalls are used to prevent the threats in information security?

12. What is a DMZ and why would we use it?

13. What are the message authentication functions? What are its requirements?

14. How Pretty Good Privacy is used for sending secure encrypted messages in network?

15. Discuss the role of qualitative risk analysis in risk management.

SECTION-C

16. Explain the importance of DES algorithm using the block diagram. Discuss the modified mode AES.

17. Discuss the Web Security issues. Which are the key Web services security requirements?

18. What is risk management process? How would you identify, analysis and evaluate the risk?

NOTE : Disclosure of identity by writing mobile number or making passing request on any page of Answer sheet will lead to UMC against the Student.