

Roll No. ....

**23587**

**M. Tech. 3rd Sem. (Forensics and  
Information Security)  
Examination – December, 2014**

**DISTRIBUTED SYSTEMS SECURITY**

**Paper : MTCF-305**

*Time : Three Hours ]*

*[ Maximum Marks : 100*

*Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.*

**Note :** Q. No. 1 is *compulsory*. Attempt *five* questions in total selecting *one* question from each Section.

1. (a) Define distributed system.
- (b) What is a Trojan horse ?
- (c) What is XSS ?
- (d) Define SOA.
- (e) Define firewall.

- (f) What is a service layer threat ?
- (g) Define cloud computing.
- (h) What is a transit code ? 8 × 2.5 = 20

### **SECTION – A**

2. (a) Explain various steps in secure development life cycle. 10
- (b) Explain common security techniques in distributed system security. 10
3. (a) Explain various infrastructure level threats and vulnerabilities. 10
- (b) Explain various grid threats and vulnerabilities. 10

### **SECTION – B**

4. Write notes on : 20
- (a) Denial of service
- (b) XSS
- (c) Improper error handling
5. (a) Explain various application level threats and vulnerabilities. 10

- (b) Explain various service level threats and vulnerabilities. 10

### SECTION – C

6. Write notes on : 20
- (a) Virtualization
  - (b) Network level solution
  - (c) Sandboxing
7. (a) Explain role of virtualization in host level solutions. 10
- (b) Explain various application level solutions. 10

### SECTION – D

8. Write notes on : 20
- (a) Managing service level threats
  - (b) SOA security solutions
9. (a) Explain cloud computing security. 10
- (b) Explain identify based encryption method. 10