

M.Sc. (Part—II) Semester—III (CBCS) Examination
COMPUTER SOFTWARE (Old)
(Network Security)
Paper—XII

Time : Three Hours]

[Maximum Marks : 80

Note :— (1) All questions are compulsory.

(2) Illustrate your answer with the help of neat sketches wherever required.

1. (A) Explain the model for Network Security with suitable diagram. 8
- (B) Explain Internet organization and RFC Publication. 8

OR

2. (A) What is Passive and Active attacks ? Explain. 8
- (B) Explain the model of Internet Work Security. 8
3. (A) How email security is achieved using PGP ? Explain. 8
- (B) How key distribution is made in Network ? Explain the ways by which key is distributed. 8

OR

4. (A) What is MIME ? Give details of MIME specification and content type. 8
- (B) Explain :
 - (i) Digital Signature
 - (ii) X.509 Authentication Service. 8
5. (A) Explain IP Security Architecture in detail. 8
- (B) Explain Transport Layer Security (TLS). 8

OR

6. (A) How is security provided on Web ? Explain. 8
- (B) Explain SSL protocol stack in brief. 8
7. (A) What is Network Management ? Explain. 8
- (B) State and explain the protocols used for Network Management. 8

OR

8. (A) Explain SNMP Architecture. 8
- (B) State and explain user security model. 8
9. (A) What is Firewall ? State and explain different services provided by Firewall. 8
- (B) What is Password Management ? Explain password selection strategy. 8

OR

10. (A) What are the different threats from Viruses ? Explain. 8
- (B) What is meant by intrusion ? How it can be prevented ? Explain. 8

