18. Elaborate the elements of transport layer protocol with an example.

19. Write short note on following :

(a) Security infrastructure components

(b) Security attack.

20. What is cryptography? And explain in detail about the RSA Algorithm.

S.No. 2032 **12UCA10**

(For the candidates admitted from 2012-2013 onwards)

B.C.A. DEGREE EXAMINATION, APRIL/MAY 2018.

Fifth Semester

COMPUTER NETWORKS

Time : Three hours Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

All questions carry equal marks.

1. What do you mean by Computer LAN?

2. Define the term 'Protocol".

3. What is Hamming Distance?

4. What is the use of network layer?

5. What is the objective of security management?

6. Define the term "Internet work".

7. What is the use of security infrastructure?

8. Define the security policy.

9. What is encryption?

10. Define : public key.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

All questions carry equal marks.

11. (a) What are the uses of computer networks?

Or

(b) Write short notes on the following :

(i) WAN (ii) MAN.

12. (a) Explain the design issues of data link layer.

Or

(b) Describe the principles of congestion control.

13. (a) Describe the advantages of transport layer services.

Or

(b) What is a DNS? Briefly discuss about it uses.

14. (a) Write a note on network security.

Or

(b) What is Bell-LA Padula confidentiality model? Explain.

15. (a) Explain about user's identity.

Or

(b) List out the database security Issues. Briefly discuss.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

All questions carry equal marks.

16. Explain the functions of seven layers of ISO OSI Reference Model.

17. Discuss briefly about rooting algorithms.