

S.No. 586

12PCA15

(For the candidates admitted from 2012–2013 onwards)

M.C.A. DEGREE EXAMINATION, NOVEMBER 2017.

Fourth Semester

COMPUTER NETWORKS

Time : Three hours

Maximum : 75 marks

PART A — (5 × 5 = 25 marks)

Answer ALL questions.

1. (a) Write a note on LAN.

Or

(b) Discuss on message switching.

2. (a) Explain the architecture of Bluetooth.

Or

(b) Discuss on sliding window protocols.

3. (a) Discuss on IP Address.

Or

(b) Write a note on Broadcast routing.



4. (a) Discuss on the DNS Name Space.

Or

(b) Discuss WWW.

5. (a) Write a note on Firewalls.

Or

(b) Discuss on substitution ciphers.

PART B — (5 × 10 = 50 marks)

Answer ALL questions.

6. (a) Explain OSI reference model.

Or

(b) Describe the structure of telephone system.

7. (a) Explain Error Detecting Code with an example.

Or

(b) Explain the collision free protocols.

8. (a) Explain the Link State Routing algorithm.

Or

(b) Give a detailed note on IP Protocol.

9. (a) Explain the header of the TCP segment.

Or

(b) Explain the format of email-message.

10. (a) Explain RSA algorithm with an example.

Or

(b) Explain e-mail security.