

Reg. No. :

Name :

Second Semester M.C.A. Degree (Regular/Supplementary/
Improvement) Examination, July 2017
(2014 Admission Onwards)
MCA2C10 : COMPUTER NETWORKS

Time : 3 Hours

Max. Marks : 80

SECTION – A

Answer **any ten** questions, **each** question carries **three** marks.

1. What are the significant features of network software ?
2. Compare and contrast interfaces and protocols.
3. Mention the essential features of selecting any physical media.
4. Compare and contrast GSM/CD and GSM/GA.
5. What are the merits and demerits of polling ?
6. Compare and contrast performance of pure ALOHA and slotted ALOHA.
7. Mention the services of wireless LAN.
8. What are the uses of ARP and RARP ?
9. Define subnetting.
10. Distinguish between offline and online services.
11. Comparison between TCP and UDP.
12. What are the uses of SAP and PDU ?

(10×3=30)

P.T.O.



SECTION – B

Answer **all** questions, **each** question carries **ten** marks.

13. a) Define switching, explain the various switching techniques briefly. 10

OR

b) Discuss the classification of computer networks with various parameters briefly. 10

14. a) List out the various design issues of the datalink layer, explain all of them briefly. 10

OR

b) Explain the properties and functionalities of sliding window protocols briefly. 10

15. a) Discuss the goals, properties of bluetooth technology briefly. 10

OR

b) Explain the significant features and frame formats of IEEE802.3 and IEEE 802.4. 10

16. a) Define routing, explain the properties and uses of routing algorithms. 10

OR

b) Explain the classification of IP address with suitable examples. 10

17. a) Mention the various services of the internet, explain the importance of each protocols briefly. 10

OR

b) i) Comparison between encryption and decryption. 5

ii) What are the design issues of the cryptography? 5