K17P 0210

Reg. No. : .....

Name : .....

Fifth Semester M.C.A. Degree (Regular) Examination, January 2017
MCA5E13 : MOBILE COMPUTING (Elective – IV)
(2014 Admission)

Time : 3 Hours Max. Marks : 80

PART – A

Answer **any ten** questions. **Each** question carries **three** marks :

1. What are the goals of mobile computing ?
2. Mention the design issues of mobile computing.
3. Discuss the procedures of multiple access in mobile computing.
4. What are the limitations of Bluetooth ?
5. Describe the format specification of IPv6.
6. List out the entities of GSM.
7. How to distinguish between authentication and security in GSM. ?
8. Mention the various network operations of GPRS.
9. What are the significant features of media gateway in mobile computing ?
10. Discuss the importance of WAP push architecture.
11. What are the applications of 36 networks ?
12. List out the merits and demerits of convergence technologies. **(10×3=30)**

PART – B

Answer **all** questions. **Each** question carries **ten** marks :

13. a) Discuss the classification of mobile computing with various applications. **10**

OR

b) Explain the functions and architecture of mobile computing briefly. **10**

P.T.O.

14. a) Discuss the significant uses of voice XML and RFID in mobile computing. 10

OR

b) i) Explain the merits and demerits of satellite communication systems. 5

ii) How to distinguish mobile IPv6 with IPv6 ? 5

15. a) Describe the architecture and cell routing process of GSM with suitable diagram. 10

OR

b) Explain the GPRS network architecture and operations of GPRS briefly. 10

16. a) Discuss briefly how does WAP provides an interoperable environment to build services in a wireless environment. 10

OR

b) i) Explain the protocols used in WAP. 5

ii) Describe the architecture of WLAN with suitable diagram. 5

17. a) Compare the various features of voice over IP and mobile voice over IP. 10

OR

b) Explain the significant features of convergence technologies and cell routing briefly. 10

(5×10=50)
