



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 3G networks ?
12. List out the merits and demerits of convergence technologies. (10x3=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)

PART-B

OR

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

P.T.O.