



K19P 1369

Reg. No. :

Name :

V Semester Master of Computer Application (M.C.A.)/ (M.C.A.) Lateral Entry
Degree (Reg./Supple./Imp.) Examination, November - 2019
(2014 Admission Onwards)

Elective-IV MCA 5E13 : MOBILE COMPUTING

Time : 3 Hours

Max. Marks : 80

- Instructions:
- 1) Answer any **ten** questions from section - A. Each question carries three marks.
 - 2) Answer all questions from section -B. Each question carries **ten** marks.

SECTION - A

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

(10×3=30)

1. Mention the design issues of mobile computing?
2. What is meant by "frequency reuse"?
3. Differentiate between Traditional IP and Mobile IP
4. Define node, home agent, and home address in mobile IP.
5. Describe the format specification of IPv6.
6. List the entities of GSM.
7. What are the advantages and limitations of GPRS?
8. Mention the various network operations of GPRS.
9. Discuss the importance of WAP push architecture.
10. What is the purpose of EIR in Mobile Computing?
11. List the various services of GSM
12. List the applications of VoIP.

P.T.O.

**SECTION - B**

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

13. a) Explain the functions and architecture of mobile computing. (10)

(OR)

b) Explain in detail about the design considerations for mobile computing. (10)

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

(OR)

b) What is a Bluetooth Piconet? How is it formed? Explain. (10)

15. a) What is GPRS? Explain GPRS architecture reference model. (10)

(OR)

b) Explain why a handover should be performed in GSM system? Also explain four possible handover scenarios in GSM. (10)

16. a) Explain WAP protocol and its Architecture in detail. Discuss the various layers of WAP. (10)

(OR)

b) What do you mean by a WLAN? Explain its Architecture with suitable diagram. (10)

17. a) Explain the significant features of convergence technologies and call routing. (10)

(OR)

b) Write a note on the following:

(i) H.323 Framework (5)

(ii) Voice over WLAN (5)