

K18P 0055



Reg. No. :

Name :

Fifth Semester M.C.A. Degree (Regular/Supplementary/Improvement)

Examination, January 2018

(2014 Admission Onwards)

Elective – IV MCA 5E13 : MOBILE COMPUTING

Time : 3 Hours

Max. Marks : 80

PART – A

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

1. What are the uses of mobile computing ?
2. Discuss the design considerations for mobile computing.
3. Compare and contrast standard of Bluetooth and RFID.
4. List out the various merits of W_{imax}.
5. What are the features of Mobile IPv6 ?
6. Mention the various types of SMS.
7. Compare and contrast authentication and security.
8. What are the data services in GPRS ?
9. Mention the design issues of CDMA.
10. What are the uses of third generation networks ?
11. Discuss the various functions of Real time protocols.
12. What are the significant features of WAP gateway ?

(10×3=30)

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PART – B

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

13. a) Explain the functions and classification of mobile computing. 10
OR
b) Discuss the architecture of mobile computing with suitable diagram. 10
14. a) i) Discuss the evolution of telecommunication system. 5
ii) Describe how mobile computing is accessible through telephone, explain briefly. 5
OR
b) Explain the security aspects, design issues of W_{imax} and Mobile IP. 10
15. a) Describe the design issues associated with mobile terminated incoming calls, how they are addressed, explain briefly. 10
OR
b) Explain the GPRS and packet data network architecture with suitable diagram. 10
16. a) Discuss the protocol stack and application environment of WAP. 10
OR
b) Comparison between CDMA and 3G and CDMA v/s GSM with suitable features. 10
17. a) Discuss importance of 4.323 framework and SIP briefly. 10
OR
b) Explain merits and demerits of voice over IP and voice over WLAN. 10