

K19P 0008

| Reg. No. | ŝ | | |
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Name :

Fifth Semester M.C.A. Degree (Reg./Supple./Imp.) Examination, January 2019 (2014 Admission Onwards) Elective – IV : MCA 5E 13 : MOBILE COMPUTING

Time : 3 Hours

Max. Marks : 80

Instructions : 1) Answer any ten questions from Section – A. Each question carries three marks.

 Answer all questions from Section – B. Each question carries ten marks.

SECTION -A

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

- 1. What are the goals of mobile computing ?
- 2. What are the limitations of Bluetooth ?
- 3. How to distinguish between authentication and security in GSM ?
- 4. Explain advantages of GPRS over GSM.
- 5. Write a note on handover procedure in GSM.
- 6. What are LLC, RLC and MAC in GPRS ?
- 7. What are the significant features of media gateway in mobile computing ?
- 8. Mention the basic capabilities of mobile IP.
- 9. List the advantages of third generation wireless networks.
- 10. What are the capabilities of WML script ?
- 11. What is Wireless Application Environment?
- 12. List the applications of VoIP.

(10×3=30) P.T.O.

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| | SECTION - B | | |
| Note : An | nswer all questions. Each question carries ten marks. | | |
| 13. a) Di | iscuss the classification of mobile computing with various applications. OR | 10 | |
| b) Ex | xplain in detail about the design considerations for mobile computing. | 10 | |
| 14. a) i) | Explain the requirements of Mobile IP. | 5 | |
| ii) | Explain the merits and demerits of satellite communication systems. | 5 | |
| b) W | lith a neat diagram, explain protocol stack of Bluetooth. | 10 | |
| | ubsystems. OR | 10 | |
| b) E | xplain the protocol architecture of the transmission plane for GPRS. | 10 | |
| 16. a) W | Vith a neat diagram explain the WAP architecture. OR | 10 | |
| b) f | Explain the basic features those are included in WML. | 5 | |
| II) |) Write a short note on 802.11 standards. | 5 | |
| 17. a) C | Compare the various features of voice over IP and mobile voice over IP. OR | 10 | |
| | Vrite a note on the following. i) Voice over WLAN. ii) SIP in mobile computing . | 5 5 | |

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12