Reg. No. : ☐☐☐☐☐☐☐☐☐☐☐☐☐

Question Paper Code : 70798

M.C.A. DEGREE EXAMINATIONS, NOVEMBER/DECEMBER 2019
Fourth Semester
MC 5402 – MOBILE COMPUTING
(Regulations 2017)

Time : Three Hours   Maximum : 100 Marks

Answer ALL questions

PART – A   (10×2=20 Marks)

1. What are the limitations of Mobile Computing ?

2. Compare FDM with TDM.

3. Mention the disadvantages of WLANS.

4. Differentiate 2G Vs 2.5G Vs 3G.

5. What is Route maintenance ?

6. What is Snooping TCP ?

7. Give some example of Mobile Operating Systems.

8. Compare Dalvik Virtual Machine with Java Virtual Machine in Android OS.

9. Write about SQLite database.

10. Define and explain Android Framework.

PART – B   (5×13=65 Marks)

11. a) i) What is HLR ? Give its use. What are the information stored in HLR ?   (7)
       ii) How many groups GSM network is divided into ? Explain each.   (6)

                          (OR)

    b) With a neat diagram discuss in detail the GSM system hierarchy and the GSM
       Architecture.

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12. a) i) Discuss IEEE 802.11 Standards and its importance.   (6)

      ii) Compare and contrast the Ad Hoc Vs Infrastructure Modes of Wireless Networks.   (7)

(OR)

b) i) What are the possible security attacks on Wireless LAN ? Explain each.   (6)

   ii) How attacks are prevented in Wireless LAN using 802.1X ?   (7)

13. a) Mobile IP describes two methods : Agent Advertisement and Agent Solicitation. Explain both.   (13)

(OR)

b) i) What is I-TCP ? How does it help improving TCP performance and what are its advantages ?   (7)

   ii) What are the advantages and disadvantages of extending the functions of a foreign agent with a Snooping TCP ?   (6)

14. a) What is an Android Virtual Device ? Give the steps to create AVD and discuss.

(OR)

b) Explain Activity Life Cycle with a help of a diagram.

15. a) Explain the components involved in Android Architecture briefly.

(OR)

b) What are the components necessary for a new android project ? Explain each.

PART – C   (1×15=15 Marks)

16. a) Explain in detail the layered architecture and the protocol stack of Wireless Application Protocol.

(OR)

b) How to create a reusable layout and give the steps. Also give the steps of how to reuse the layout.

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