VASAVI COLLEGE OF ENGINEERING *(Autonomous)*, HYDERABAD
M.C.A. II Year II-Semester (Main) Examinations, June-2016

Mobile Communications

Time: **3** hours   Max. Marks: **70**

*Note: Answer **ALL** questions in **Part-A** and any **FIVE** from **Part-B***

Part-A (10 × 2 = 20 Marks)

1. Define PRMA.
2. What is CDMA?
3. Name three subsystems of GSM.
4. Explain handover in cellular system.
5. What are the different operating modes of HiperLAN2 networks?
6. Explain SDP defined by Bluetooth.
7. What are the different types of ad hoc routing protocols?
8. Define Indirect TCP.
9. Differentiate between strong and weak consistency of a file system.
10. List key features of Palm OS.

Part-B (5 × 10 = 50 Marks)

11. a) Discuss about the scheme of multiple access with collision avoidance.   [6]
    b) Explain the working of Spread Aloha multiple access.   [4]

12. a) Discuss GPRS data service.   [5]
    b) Describe Digital audio broadcasting system.   [5]

13. a) Illustrate the structure of an IEEE 802.11 MAC data frame.   [6]
    b) Explain the concept of a handover in HiperLAN2.   [4]

14. a) Illustrate the working of mobile TCP with the advantages and disadvantages of the   [5]
       approach.
    b) Explain different encapsulation techniques used in mobile IP.   [5]

15. a) Describe world wide web.   [4]
    b) Explain the wireless session protocol.   [6]

16. a) Explain advanced frequency shift keying and advanced phase shift keying.   [5]
    b) Discuss security services of GSM.   [5]

17. Write short notes on any *two* of the following:
    a) Infrared technology Vs Radio transmission.   [5]
    b) Performance enhancing proxies.   [5]
    c) Coda File System.   [5]

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