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**Question Paper Code : 50767****B.E./B.Tech. DEGREE EXAMINATION, NOVEMBER/DECEMBER 2017****Sixth Semester****Information Technology****IT 6601 – MOBILE COMPUTING****Common to Computer Science and Engineering****(Regulations 2013)****Time : Three Hours****Maximum : 100 Marks****Answer ALL questions****PART – A****(10×2=20 Marks)**

1. List out the differences between Mobile Computing and Wireless Networking.
2. "MAC protocol designed for infrastructure based wireless network may not work satisfactory in infrastructure-less environment." – Justify.
3. To which layer do each of the following protocols belong to ? What is their functionality ?
  - \* RARP
  - \* DNS.
4. Differentiate the functionalities of a foreign agent and home agent.
5. List the services of GPRS.
6. Define Handoff. What are its types ?
7. Compare AODV and DSR protocols.
8. What are the contents of link state advertisement message ?
9. What are the constraints in Mobile OS ?
10. What are the advantages and disadvantages of BlackBerry OS ?

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## PART – B

(5×16=80 Marks)

11. a) i) Explain hidden and exposed terminal problem in infrastructure-less network. (8)  
ii) Describe architecture of mobile computing. (8)

(OR)

- b) What are the fixed assignment schemes of MAC protocol ? Explain their mechanism in detail. Compare and contrast them.

12. a) Illustrate packet delivery mechanism in Mobile IP network with a neat diagram.

(OR)

- b) Discuss and compare the various mechanisms used to improve the TCP performance in mobile networks.

13. a) Explain GSM architecture and its services with neat diagram.

(OR)

- b) Explain in detail about UMTS architecture and its services.

14. a) Discuss route discovery and route maintenance mechanisms in DSR with illustrations. List its merits and demerits.

(OR)

- b) Describe the architecture of VANET with the functionality of the components. Compare VANET with MANET.

15. a) Illustrate the process of mobile payment. Compare and contrast mobile payment schemes.

(OR)

- b) Explain android platform with its features, software stack and SDK.