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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.