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**MCA 501**

**Fifth Semester M.C.A. Degree Examination, December 2018**  
**MOBILE COMMUNICATION**

Time : 3 Hours

Max. Marks : 75

**Note :** Answer **any five** questions. **Each** question carries **15** marks.

1. a) Briefly explain the architecture of PCS. 7  
b) What is GSM ? Explain functional architecture of GSM system. 8
2. a) Explain the Handoff strategies in Wireless system. 7  
b) Draw and explain the Frame structure for GSM. 8
3. a) Briefly describe the layers covered by IEEE 802.11 and explain its protocol architecture and management. 7  
b) Why do you prefer GPRS ? What are the differences between 3G and GPRS ? 8
4. a) Explain the advantages and disadvantages of WLAN. 7  
b) Explain Wireless Application Protocol (WAP) architecture. 8
5. a) Describe the databases used in PCS. 7  
b) Explain IP packet delivery, agent advertisement, discovery and registration process in mobile IP. 8
6. a) What is WML ? Explain WML scripts in detail. 7  
b) Explain W-CDMA and CDMA 2000. 8
7. a) With a neat diagram, explain Protocol Stack of Blue tooth. 7  
b) Write a note on Global star system. 8
8. a) Describe tunneling and encapsulation in Mobile IP. 7  
b) Write short notes on : 8
  - a) PAN and WPAN
  - b) Security and Authentication in GSM.

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