

23344

M. Tech. 2nd Semester (Embedded System and Design)

Examination, May-2015

**EMBEDDED SYSTEM FOR WIRELESS AND MOBILE
COMMUNICATION**

Paper-MT-VLES-508

Time allowed : 3 hours]

[Maximum marks : 100

Note : Attempt any five questions.

1. (a) Explain different specifications of a bluetooth device in detail. 10
(b) Explain the protocol architecture of a bluetooth technology. 10
2. (a) Differentiate between Asynchronous and synchronous modes of communication with a suitable example of each. 10
(b) Differentiate between TDM and FDM with the help of a neat and clean diagram and also explain their types. 10
3. (a) What do you mean by Adhoc Network ? Explain different types of wireless networks. 10
(b) What do you mean by term 'scatternet'. Explain the use of scatternet in Bluetooth technology. 10
4. (a) Explain the procedure of connection establishment including all the stages involved in the process. 10

- (b) Explain the key Agreement Protocol with reference to the security architecture in Bluetooth technology. 10
5. What is the function of a Generic Access Profile ? Explain different modes of GAP in detail. 20
6. (a) Explain the architecture of J2ME including its profiles and configurations. 10
- (b) What do you mean by term 'interfaces' used in Java. obex package. 10
7. (a) Explain the Client and server application of a bluetooth in detail. 10
- (b) Define the term 'Link Manager Protocol' and its application. 10
8. Write short notes on following : 20
- (i) IRDA
- (ii) RF
- (iii) Wireless LAN
- (iv) JINI