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Total No. of Pages : 01

Total No. of Questions : 08

M.Tech. (Emb Sys) (Sem.-1)
EMBEDDED SYSTEM FOR WIRELESS & MOBILE
COMMUNICATION

Subject Code : MTES-PE1C-18

Paper ID : [75812]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :**1. Attempt any FIVE questions out of EIGHT questions.****2. Each question carries TWELVE marks.**

- Q1. Describe in detail about the Bluetooth radio protocol architecture and function of each layer with a neat sketch.
- Q2. a) Why Java is called the 'Platform Independent Programming Language'?
- b) What is J2ME architecture? Explain in brief. What are its advantages and disadvantages?
- Q3. Draw and explain in brief the model of OBEX object.
- Q4. What is the concept of spread spectrum? Explain FHSS spread spectrum in detail.
- Q5. Explain the following with respect to Bluetooth :
- a) Services offered
 - b) Bluetooth packet format
 - c) Security
 - d) Link management
- Q6. Write short notes on :
- a) Serial and Parallel Communication.
 - b) Asynchronous and Synchronous Communication.
 - c) FDM and TDM
 - d) Piconet and Scatternet
- Q7. Enumerate the types of services offered by Bluetooth and its packet header.
- Q8. Write short notes on :
- a) IrDA standard and its specifications.
 - b) HomeRF and its advantages.
 - c) JINI