

Code No: **R41054****R10****Set No. 1****IV B.Tech I Semester Supplementary Examinations, October/November - 2017****MOBILE COMPUTING**
(Computer Science Engineering)**Time: 3 hours****Max. Marks: 75****Answer any Five Questions**
All Questions carry equal marks

- 1 a) Describe the signal propagation at UHF frequencies. List the UHF frequencies for the TV, DAB, DECT, and GSM applications. [5]
b) Describe in detail about the amplitude and frequency modulation. [10]
- 2 What are the popular operating systems used in hand held devices? Explain the key features of each OS and the devices that run on them. [15]
- 3 a) Explain the network subsystem of GSM system. [8]
b) Discuss in detail about call handling in GSM. [7]
- 4 a) Explain in detail about the medium access control. [8]
b) Write in brief about the modulation and multiplexing techniques for 4G networks. [7]
- 5 a) Discuss in detail about Mobile IP. [8]
b) What are the five layers in the IP protocol? Explain the functionalities of each layer. [7]
- 6 a) Explain about the usage models for synchronization in mobile applications. [8]
b) Discuss about Oracle 9i Application Server. [7]
- 7 a) Write about the applications of wireless sensor networks. [7]
b) Explain in detail about the various security issues in MANETs. [8]
- 8 a) What is a WLAN? Give a brief note on the advantages of WLANs. [8]
b) Explain about wireless session protocol. [7]