

**D 70158**



**SEVENTH SEMESTER B.TECH. (ENGINEERING) [09 SCHEME] DEGREE EXAMINATION, NOVEMBER 2014**

**CS/PTCS 09 701—WIRELESS NETWORKS AND MOBILE COMMUNICATION SYSTEM**

Time : Three Hours

Maximum : 70 Marks

**Part A**

*Answer all questions.*

- I. (a) What is meant by wireless networks ?  
(b) Define Mobility.  
(c) What is meant by message routing ?  
(d) List the two aspects of GSM.  
(e) Define WAP.

(5 × 2 = 10 marks)

**Part B**

*Answer any four questions.*

- II. (a) Explain the major networking issues for a cellular telephony.  
(b) Compare and contrast "Threads and processors".  
(c) How does inter communication achieved in wireless systems ?  
(d) Discuss some features of TCAP.  
(e) Describe any GSM service with example.  
(f) Explain packet radio service with example.

(4 × 5 = 20 marks)

**Part C**

- III. (a) Explain the various challenges of a true wireless systems.  
*Or*  
(b) Discuss the major goals and design of a Handoff Management.
- IV. (a) Describe in detail about cellular digital packet architecture.  
*Or*  
(b) Explain the design and implementation issues of TCAP.
- V. (a) Discuss in detail about the characteristics of GSM short message service.  
*Or*  
(b) Discuss the various issues of GSM network signaling.
- VI. (a) Explain in detail about GPRS architecture with an example.  
*Or*  
(b) Explain briefly about GPRS network nodes.

(4 × 10 = 40 marks)