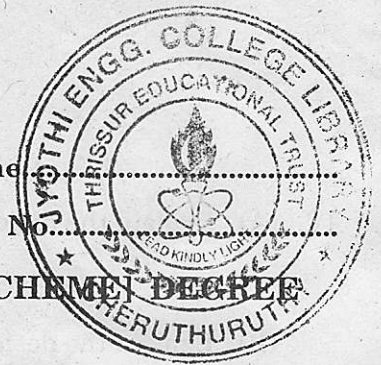


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Name

Reg. No.



**SEVENTH SEMESTER B.TECH. (ENGINEERING) [09 SCHEME] DEGREE
EXAMINATION, NOVEMBER 2015**

CS/PTCS 09 701—WIRELESS NETWORKS AND MOBILE COMMUNICATION SYSTEMS

Time : Three Hours

Maximum : 70 Marks

Part A

I. Answer *all* questions :

- (a) Write a note on mobile node.
- (b) Write a note on roaming.
- (c) What is meant by message routing ?
- (d) What is the use of resource allocation ?
- (e) List the two aspects of GSM portability.

(5 × 2 = 10 marks)

Part B

II. Answer any *four* questions :

- (a) Mention the challenges in wireless systems.
- (b) What is the use of roaming management?
- (c) Draw the diagram for request-reply message structure.
- (d) What is CDPD ? How it is implemented ?
- (e) List the requirements of PACS network signaling.
- (f) What is the advantages of WAP service ?

(4 × 5 = 20 marks)

Part C

III. (A) Discuss the major goals and design of a Handoff Management.

Or

(B) Explain about Wireless Telephony Applications.

Turn over

IV. (A) Explain the major issues of CDPD air interface in detail.

Or

(B) Explain the design and implementation issues of TCAP.

V. (A) Discuss the various issues of GSM network signaling.

Or

(B) Explain about GSM mobility management in detail.

VI. (A) Explain briefly about Packet radio service architecture with neat diagram.

Or

(B) Explain briefly about GPRS network nodes.

(4 × 10 = 40 marks)