

**M. TECH.-I (INFORMATION TECHNOLOGY) (CBCS – 2015  
COURSE) : WINTER - 2017**

**SUBJECT : MOBILE NETWORKS AND COMMUNICATION**

Day **Friday**  
Date **19/01/2018**

Time : **11.00 AM TO 02.00 PM**  
Max. Marks : 60.

**W-2017-2786**

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**N.B.:**

- 1) All questions are **COMPULSORY**.
  - 2) Both the sections should be written in **SEPARATE** answer books.
  - 3) Figures to the **RIGHT** indicate full marks.
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**SECTION-I**

**Q.1** What is frequency reuse channel? Explain channel assignment. **(10)**

**OR**

Explain Hand off algorithm and dropped cells.

**Q.2** Compare TDMA and CDMA. **(10)**

**OR**

Explain IEEE 802.11 wireless standard.

**Q.3** What is non-co channel interference? Explain reduction co channel. **(10)**

**OR**

Write different ways to reduce interference and improve cell coverage.

**SECTION-II**

**Q.4** Explain special features for handling traffic. **(10)**

**OR**

What is system enhancement? Explain resource allocation.

**Q.5** What is mobility management? Explain small switching system. **(10)**

**OR**

Draw GSM system architecture.

**Q.6** What is WLAN? Explain HIPERLAN data link layer. **(10)**

**OR**

Explain IEEE 802.11 MAC sublayer.

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