

**M. Tech.-I (Information Technology) (CBCS – 2015 Course) :**  
**WINTER - 2018**  
**SUBJECT: MOBILE NETWORKS AND COMMUNICATION**

Day: Friday  
Date: 07/12/2018

**W-2018-3118**

Time: 11.00 AM TO 02.00 PM  
Max Marks: 60

---

**N.B.:**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Assume suitable data if necessary.
- 

**Q.1**      What is Frequency Management? Explain Cell Splitting in detail.      **(10)**

**OR**

**Q.1**      Describe Handoff algorithm in detail.      **(10)**

**Q.2**      Compare FDMA and TDMA with net diagram.      **(10)**

**OR**

**Q.2**      Draw and Explain IEEE 802.11 Architecture in detail.      **(10)**

**Q.3**      What is Cell Coverage? Explain reduce and improve cell coverage.      **(10)**

**OR**

**Q.3**      Describe Co-Channel and Non Co-Channel in detail.      **(10)**

**Q.4**      What is Resource Allocation? Explain in Detail.      **(10)**

**OR**

**Q.4**      Describe Special Features for Handling Traffic.      **(10)**

**Q.5**      Compare Cell Phone Generation 1G, 2G and 3G.      **(10)**

**OR**

**Q.5**      Draw and Explain Wireless Standards UMTS System.      **(10)**

**Q.6**      What is WLAN? Explain Hidden Station Problem in detail.      **(10)**

**OR**

**Q.6**      Describe HIPERLAN and IEEE 802.11 MAC Sub layer in detail.      **(10)**

\* \* \* \*

---