# M. TECH. –II (COMPUTER ENGINEERING) (CBCS – 2015 COURSE) : WINTER - 2017

## SUBJECT: WIRELESS COMMUNICTION & SECURITY

Day: **Thursday**
Date: **30/11/2017**

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

**W-2017-2807**

**N.B.**

1) All questions are **COMPULSORY**.
2) Answer to the two sections should be written in **SEPARATE** answer book.
3) Figures to the **RIGHT** indicate full marks.
4) Assume suitable data if necessary.

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### SECTION - I

**Q.1** Differentiate between wired & wireless networks. What are the characteristics of a wireless channel? **(10)**

**OR**

**Q.1** Explain cellular system with three & seven cell clusters. **(10)**

**Q.2** Explain the following in detail **(10)**

i) Fixed TDM

ii) Classical Aloha

iii) Slotted Aloha

iv) Carrier sense multiple access

v) Demand assigned multiple access.

**OR**

**Q.2** Explain spread Aloha multiple access in detail. **(10)**

**Q.3** How do inclination & elevation determine the use of a satellite? **(10)**

**OR**

**Q.3** What characteristics do the different orbits have? What are their pros & cons? **(10)**

### SECTION - II

**Q.4** What are the characteristics of an ideal routing protocol of ad hoc wireless networks? **(10)**

**OR**

**Q.4** With example explain 3 infrastructures based wireless networks. **(10)**

**Q.5** Explain IP packet delivery & agent discovery in detail. **(10)**

**OR**

**Q.5** Explain Indirect TCP & Mobile TCP in detail. **(10)**

**Q.6** Explain system power management schemes in detail. **(10)**

**OR**

**Q.6** Explain denial of service attacks in detail. **(10)**

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