

**B. TECH. SEM -VII (E & TC ENGG.) (2014 COURSE) (CBCS) :
WINTER - 2017**

SUBJECT: MOBILE AND BROADBAND COMMUNICATION

Day : **Wednesday**
Date : **17/01/2018**

W-2017-2338

Time : **02.30 PM TO 05.30 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.
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Q.1 What are the applications of cellular mobile communication? (10)

OR

Explain packet switched data services on cellular Network. (10)

Q.2 Compare infrastructure network and ad hoc network in wireless LAN. (10)

OR

Discuss WPAN on following criteria (10)

- | | |
|--------------------------|---------------------------|
| i) Market potential | ii) Compatibility |
| iii) Distinct identity | iv) Technical feasibility |
| v) Economic feasibility. | |

Q.3 List the entities of mobile IP and describe data transfer from a mobile node to a fixed node and vice versa. Why and where is encapsulation needed? (10)

OR

Write a short note on mobile ad hoc networks. Distinguish some of the ad hoc routing protocols. (10)

Q.4 What is ISDN? Explain its principles and architecture. (10)

OR

Explain ISDN switching techniques and compare them with respect to bit rate, simplicity and complexity. (10)

Q.5 Write down the business and residential requirement of B-ISDN services. (10)

OR

Explain B-ISDN architecture with block diagram. (10)

Q.6 Write a note on SONET. (10)

OR

Explain system hierarchy of B-ISDN protocol. (10)

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