

M. Tech.-III (Information Technology) (CBCS – 2015 Course) :

WINTER - 2018

SUBJECT : Self-Study Paper-I Ad-hoc Network

Day: Saturday
Date: 08/12/2018

W-2018-3237

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) Answer to the both sections should be written in **SEPARATE** answer book.
 - 4) Assume suitable data if **NECESSARY**.
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SECTION - I

Q.1 Discuss the evolution of mobile cellular network. Hence explain the working of GSM. [10]

OR

What is Wireless LAN? Discuss different standards of wireless LAN?

Q.2 What is Packet radio network? Discuss technical challenges in implementation of the same. [10]

OR

What are wireless sensor networks? List the different characteristics.

Q.3 What are the problems in Ad-Hoc Networks? Discuss solutions for these problems. [10]

OR

Explain any one Ad-hoc MAC protocol.

SECTION - II

Q.4 Enlist different Ad-hoc routing protocols. Hence explain Destination Sequenced Distance Vector algorithm. [10]

OR

Write a short note on: DSR (Dynamic Source Routing) protocol.

Q.5 Explain the communication performance of Ad-hoc networks. [10]

OR

What is TCP? Discuss evolution of TCP.

Q.6 What are the problems facing TCP in wireless Ad-hoc? [10]

OR

How Car to Car mobile communications work?

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