

B.Tech. SEM -VII (Computer) 2014 Course (CBCS) : WINTER - 2018
SUBJECT: ELECTIVE-III AD- HOC AND SENSOR NETWORKS

Day: Monday
Date: 03/12/2018

W-2018-2543

Time: 02.30 PM TO 05.30 PM
Max. Marks: 60

N.B:

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

- Q.1 a) Explain Ad-hoc network architecture. (05)
b) What is need of sensor networks? (05)

OR

- Q.1 a) Discuss working of Ad-hoc and Sensor networks. (05)
b) What are limitations of Ad-hoc and Sensor networks? (05)

- Q.2 What are requirements for Ad-hoc and sensor network connectivity? How to configure wireless LAN. (10)

OR

- Q.2 Explain Wireless communication technology? What is role of radio waves in wireless networks? (10)

- Q.3 What is main purpose of TCP/IP in Ad-hoc network? Explain Routing Protocols in Ad-hoc networks? (10)

OR

- Q.3 Discuss classifications of multicast routing protocols. Compare different multicast routing protocols. (10)

- Q.4 What are various issues and challenges of security in Ad-hoc network attacks? Explain role of transport layer in Ad-hoc and sensor networks? (10)

OR

- Q.4 Explain with real life example to understand need of security in Ad-hoc networks. List different issues in designing a transport layer protocol? (10)

- Q.5 a) How QoS Frameworks is important for Ad- hoc wireless network works. (05)
b) Write different issues and challenges in system power management schemes. (05)

OR

- Q.5 a) What are various utilization schemes in Ad-hoc and Sensor networks? (05)
b) Explain transmission power management schemes in details. (05)

- Q.6 What are different steps to establish Ad-hoc and sensor network. (10)

OR

- Q.6 Explain an application of Ad-hoc and Sensor networks in Internet of Things. (10)