

**B.TECH. SEM -VII (COMPUTER) 2014 COURSE (CBCS) :
SUMMER - 2018**

SUBJECT: ELECTIVE – III : AD-HOC & SENSOR NETWORKS

Day : **Friday**

Date : **25/05/2018**

S-2018-2488

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.
-

- Q. 1** Explain Ad-hoc & sensor network architecture in details. (10)
- OR**
- Q. 1** Justify with suitable example difference between Ad-hoc & sensor networks. (10)
- Q. 2** a) Explain different types of wired & wireless channel. (05)
b) With the neat diagram explain Ad-hoc & sensor network connections. (05)
- OR**
- Q. 2** a) Explain multichannel MAC in detail. (05)
b) Compare any two types of IEEE standard. (05)
- Q. 3** a) Explain TCP/IP in Ad-hoc networks. (05)
b) Discuss classification of multicast routing protocols (05)
- OR**
- Q. 3** a) Compare different multicast routing protocol. (05)
b) Explain MAC protocol with suitable example. (05)
- Q. 4** a) Explain role of transport layer in Ad-hoc and sensor networks. (05)
b) Describe architecture of security layer in ad hoc network. (05)
- OR**
- Q. 4** a) Explain security in sensor networks. (05)
b) What are different challenges in security provisioning? (05)
- Q. 5** Explain in detail transmission system power management scheme? (10)
- OR**
- Q. 5** Explain in detail QoS framework for Ad- hoc wireless network (10)
- Q. 6** Explain in detail Zighbee , Rasberry Pi, And Arduino. (10)
- OR**
- Q. 6** Explain in detail application of mobile Ad-hoc networks. (10)

* * * * *