Poll No

EC-802

B.E. VIII Semester

Examination, June 2014

Advanced Communication System www.rgpvonline.in

Time: Three Hours

Maximum Marks: 70

Note: Attempt one question from each unit. All questions carry equal marks.

Unit-I

- 1. a) With the help of block diagram explain the working of frequency hopped spread spectrum technique.
 - b) Discuss about the multiuser detection technique.

OR and a solution mode show

- 2. a) With the help of block diagram explain the working of Direct sequence spread spectrum technique. Also explain processing gain.
 - b) Discuss about the multiuser detection technique.

Unit-II

- 3. a) Discuss the working principle of OFDM.
 - b) How is channel estimation done in OFDM? Determine the peak to average power ratio.

OR

- 4. a) Discuss the principle of multicarrier code division multiple access.
 - b) What is inter carrier interference? How can it be reduced?

Unit-III

5. Explain in detail the principle working of smart antenna.

OR

 Explain in detail the principle of multi input multi output system also explain multi user MIMO.

Unit-IV

- 7. a) Discuss the principle of inter weaving in cognitive radio.
 - b) How is spectrum sharing done in cognitive radio.

OR

- 8. a) Explain about the cognitive transceiver architecture.
 - b) What do you understand by overlay and underlay.

Unit-V

- 9. Write short notes of the following:
 - a) Routing and resource allocation in multi hop networks.
 - b) Network Coding.

OR The second residues

- 10. Write short notes of the following:
 - a) Relaying with multiple parallel relays.
 - b) Routing and resource allocation in collaborative networks.
