

Total No. of Questions :8]

[Total No. of Printed Pages :2

Roll No

EC-802**B.E. VIII Semester**

Examination, June 2017

Advanced Communication System**Time : Three Hours****Maximum Marks :70**

Note: Attempt any five questions. All questions carry equal marks.

1. a) Discuss the principle working of direct sequence spread spectrum technique.
b) Discuss the principle working of cellular CDMA system.
2. a) Discuss the principle working of frequency hopping multiple access.
b) Discuss the principle of time hopping impulse ratio.
3. a) Discuss the principle of OFDM system.
b) What is inter carrier interference and how it can be overcome.
4. a) Discuss the principle of multi carrier code division multiple access.
b) Explain the principle of single carrier modulation with frequency-domain equalization.

EC-802

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[2]

5. a) Discuss the principle working of smart antennas.
b) Discuss the working of multi user MIMO.
6. a) Discuss the cognitive transceiver architecture.
b) Discuss about spectrum sensing, spectrum management and spectrum sharing.
7. a) Discuss about routing and resource allocation in multi hop networks.
b) Discuss about routing and resource allocation in collaborative networks.
8. Write short notes on any two of the following:
 - a) Adaptive modulation and capacity.
 - b) Single carrier modulation with frequency domain equalization.
 - c) Network coding.

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