

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -2 EXAMINATION- Oct 2017

B.Tech VII Semester (ECE)

COURSE CODE: 14B1WEC733

MAX. MARKS: 25

COURSE NAME: Cognitive Radio Networks

COURSE CREDITS: 03

MAX. TIME: 1.5hr.

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*Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means.*

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- Q1.** What are various challenges in spectrum management and mobility functions of cognitive radio. (3)
- Q2.** Discuss "command and control model" and "commons model" of spectrum access. (3)
- Q3.** What do you understand by software tunable impedance synthesizer and what is its role in cognitive radio? (3)
- Q4.** In what ways multiple antennas can be used for performance improvement in cognitive radio network? (5)
- Q5.** Differentiate among various reconfigurable digital radio technologies. (3)
- Q6.** Comment on the statement "OFDM is a good fit for cognitive radio". (3)
- Q7.** Explain in detail about the components of practical SDR architecture (5)