ROLL No

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST-2 EXAMINATION- March -2017

M.Tech II Semester

COURSE CODE: 10M11EC212

MAX. MARKS: 25

COURSE NAME: Advance Wireless & Mobile Communication

COURSE CREDITS: 03

MAX. TIME: 1hr 30min

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

Q.1 If signal bandwidth becomes greater then the coherence bandwidth of the Rayleigh fading channel then what is the effect on received signal? Justify your answer by considering suitable example. [5 marks]

Q.2 Explain Doppler spectrum for wireless channel using Jakes Model. Where we use Doppler spectrum? What is the significance of Doppler spectrum? [5 marks]

Q.3 Explain how the spreading codes is used to access multiple channel in Wireless Communication. What are the advantages and drawbacks if we use spreading codes? [5 marks]

Q.4 Generate 31 bit long PN sequence using LFSR. Explain balance property of PN sequence code. [5 marks]

Q.5 Differentiate between Delay spread & R.M.S delay spread for Wireless Channel. Find the value of above said spreads for given fig. [5 marks]

