Dr. Gunjan Goel / Dr. G. V. Kumar

JAYPEE UNIVERSITY OF INFORMATRION TECHNOLOGY, WAKNAGHAT TEST -2 EXAMINATION- April 2018

B.Tech IV Semester

COURSE CODE: 10B11GE411

MAX. MARKS: 25

COURSE NAME: Environmental Studies

COURSE CREDITS: 3

MAX. TIME: 1.5 Hrs

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

- 1. a) Draw a well labeled sketch of sewage treatment plant indicating all the stages of the treatment.
 - b) Explain the function of following in sewage treatment: Aeration, Sludge and Filtration

(2+3)

- 2. a) Discuss the different generations of biofuel production.
 - b) What are the possible consequences of polluting the water bodies on human life? (2+2)
- 3. Explain the following terms in brief:

(1+1+3)

- a) Carbon credits
- b) GWP
- c) Greenhouse gases
- 4. What do you understand by trans-esterification process? What are the effects of FFA and water on yield of biodiesel? (2+2)
- 5. Give an account or different stages of anaerobic digestion of wastes. What are the different wastes available in India which can be used to generate bioenergy? (2+1)
- 6. Differentiate between the following:

(4)

- a) Point and Non point sources of water pollution
- b) Primary and secondary air pollutants