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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- Sept 2018

B.Tech (Biotech), VII Semester

COURSE CODE: 14B1WBT731

MAX. MARKS:15

COURSE NAME: Bioenergy and Biofuels

COURSE CREDITS: 03

MAX. TIME: One Hr

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

1. What meant by "Sustainability of feedstock" and "Carbon neutrality"? (2 M)
2. How biofuels are classified based on the feedstock? Mention the advantages and disadvantages of each case? (4 M)
3. Write the theoretical equation used to denote the transesterification of oils to Biodiesel? Differentiate chemical transesterification with lipase-catalyzed transesterification? (4 M)
4. What are the detrimental steps in biomass to ethanol research for reducing the production cost? (2 M)
5. What are the various parameters affecting the biogas production in a reactor? (3 M)

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