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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
T-3 EXAMINATION- MAY 2018
BTech IV Semester (All branches)

COURSE CODE: 10B11GE411 MAX. MARKS: 35
COURSE NAME: Environmental Studies
COURSE CREDITS: 3 MAX. TIME: 2 Hrs

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

Q1. **a)** Discuss the physico-chemical parameters to be studied in determining the water quality.

b) Write brief notes on: (i) Third generation biofuels (ii) Bx, (iii) Jatropha

3+3 (CO5)

Q2. **a)** How ecotourism can be taken as a strategy for development of sustainable tourism?

b) Green buildings provide a sustainable solution to overcome environmental hazards. Justify the statement by citing eco-friendly considerations during preparation of green buildings

c) What are the basic principles used in Green Chemistry? Give any two examples in your routine life where we can have advantages of green chemistry

3+3+3 (CO4)

Q3. What dictates the "1972-The wildlife protection act" and "1988-The Motor Vehicles Act" and summarize the penalties impinging on the breach of these act? **3 (CO6)**

Q4. **a)** What is the reason for measuring BOD on 5th day instead of 20th day? What are the advantages of measuring COD instead of BOD of wastewater streams?

b) As a student of environmental studies, you have been approached by the wastewater treatment plant manager for BOD calculation for the following problem

The 3.0 ml of JUIT raw sewage has been diluted to 300 ml and DO concentration of the diluted sample at the beginning of BOD test was 8 mg/L and 5mg/L after 5 day incubation at 20°C. Please help him by solving the problem for finding BOD of raw sewage.

c) What are the challenges India is facing in minimizing air pollution due to agricultural practices **3+4+2 (CO2)**

Q5. What do you understand by the term BIOME? What are the major anthropogenic activities imbalancing their structure? **4 (CO1)**

Q6. Define your role as an individual in protection of the environment and conservation of natural resources **4 (CO3)**