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Total Number of Pages: 02

Course: B.Tech
Sub_Code: RGT6A003

7th Semester Regular/Back Examination: 2024-25

SUBJECT: Green Technology

BRANCH(S): AUTO, BIOMED, BIOTECH, C&EE, CIVIL, CSEAI, CSE, CSIT, CSEAIME,
ELECTRICAL & C.E, EEE, ELECTRICAL, ECE, ELECTRONICS & C.E, ETC, IT, MMEAM,
MECH, MME, METTA, MINING

Time: 3 Hours

Max Marks: 100

Q.Code: R147

Answer Question No.1 (Part-1) which is compulsory, any eight from Part-II and any two from Part-III.

The figures in the right hand margin indicate marks.

Part-I

Q1 Answer the following questions:

(2 x 10)

- What is photosynthesis?
- What are called carbon-neutral items? Give examples.
- What is MRV?
- What is the role of GRIHA?
- List any two renewable energy sources.
- What is net accumulation?
- What is Net- Zero?
- Suggest two eco-friendly materials used in green building.
- How does a solar PV system work?
- What are the windy sites found in India?

Part-II

Q2 Only Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve)

(6 x 8)

- Discuss the significance of green technologies in mitigating environmental issues with relevant examples.
- What are the possible steps recommended to stop deforestation?
- Briefly discuss about different sources of green house gases.
- What is zero-waste management?
- What is the concept of green infrastructure?
- Discuss about application of geothermal energy.
- Give a brief account of usage of fossil fuels.
- What is biofuel? Discuss the biofuel policy in India.
- Write down the different causes of global warming.
- Write short note on global warming potential.

- k) What is biomass energy, and how is it harnessed?
l) Describe the adaptive measures necessary to cope with climate change.

Part-III

Only Long Answer Type Questions (Answer Any Two out of Four)

- Q3 Write short notes on a) Hydropower b) Kyoto Protocol (16)
- Q4 What are the steps can be taken for control of carbon emissions and accumulation? (16)
- Q5 Discuss about installation and working principle of solar PV panels. (16)
- Q6 Evaluate the impact of climate change on Indian agriculture. What adaptive strategies are essential to mitigate the effects of climate change on rural communities? (16)