Registration No.: | | | | | | | | | | |

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)**

a) What is photosynthesis?
b) What are called carbon-neutral items? Give examples.
c) What is MRV?
d) What is the role of GRIHA?
e) List any two renewable energy sources.
f) What is net accumulation?
g) What is Net- Zero?
h) Suggest two eco-friendly materials used in green building.
i) How does a solar PV system work?
j) 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)**

a) Discuss the significance of green technologies in mitigating environmental issues with relevant examples.
b) What are the possible steps recommended to stop deforestation?
c) Briefly discuss about different sources of green house gases.
d) What is zero-waste management?
e) What is the concept of green infrastructure?
f) Discuss about application of geothermal energy.
g) Give a brief account of usage of fossil fuels.
h) What is biofuel? Discuss the biofuel policy in India.
i) Write down the different causes of global warming.
j) 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)**