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Total Number of Pages: 02

Course: B.Tech
Sub_Code: RGT6A003

6th Semester Regular/Back Examination: 2024-25

SUBJECT: Green Technology

BRANCH(S): AEIE, MANUTECH, PLASTIC, PT

Time: 3 Hours

Max Marks: 100

Q.Code: S033

Answer Question No.1 (Part-I) 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 are the two sources of major green house gases?
- Mention two examples of green technologies in energy sector.
- What is carbon tax?
- What stands for NAPCC?
- Define heating potential.
- What is the term for energy derived from the heat of the earth?
- Define photosynthesis.
- Give two examples of renewable energy.
- In which year Kyoto Protocol was adopted?
- What is GRIHA?

Part-II

Q2 Only Focused-Short Answer Type Questions- (Answer Any Eight out of Twelve) (6 x 8)

- What are the challenges faced in the adoption and implementation of green technology?
- What is global warming? How does it affect us?
- Write short note on MEV debate.
- How do we contribute towards carbon footprint?
- Differentiate between photosynthesis and respiration.
- Write short note on wind energy.
- What are the environmental benefits of utilizing renewable energy sources?
- What are fossil fuels? How do they contribute to climate change?
- Briefly describe about goals and achievements of NAPCC in India.
- What are possible climate change adaptation ways?
- What are the approaches recommended to stop deforestation?
- How can individuals contribute to the promotion and use of green technology?

Part-III

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

(16 x 2)

- Q3** Describe briefly the causes, effects, and control measures of climate change. **(16)**
- Q4** What are different sources of carbon emissions? Discuss about various mitigative measures to reduce global carbon emissions. **(16)**
- Q5** Write short notes on a) Kyoto Protocol b) Tidal energy **(16)**
- Q6** Describe briefly the causes, effects, and control measures of Green House Effect. **(16)**