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Total Number of Pages : 02

Course: B.Tech
Sub_Code: RGT6A003

6th Semester Regular/ Back Examination: 2022-23

SUBJECT: Green Technology

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

Time : 3 Hour

Max Marks : 100

Q.Code : M135

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)

- Which three major gases cause global warming?
- What is green building?
- What is GRIHA?
- What is net accumulation?
- In which year Kyoto Protocol was adopted?
- Write about MRV debate.
- What is Carbon Tax?
- What is tidal energy?
- What are renewable sources of energy?
- What is Heating Potential?

Part-II

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

- Explain the mechanism of photosynthesis in removal of carbon from the atmosphere.
- What is green house effect? Explain briefly.
- What is biomass energy? Describe the different types of biomass.
- What are the advantages of solar energy?
- Discuss about various effects and impacts of climate change on cities.
- Discuss about essential factors of wind energy.
- What is solar water heater? Write about its field of applications.
- How do we obtain biofuels from algae?
- How carbon emission can be reduced at personal level?
- What do you mean by ECBC and discuss its various aspects of guidelines?
- Explain how green technology can be used in industries with some examples.
- Discuss about the future aspect of conventional energy sources.

Part-III

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

- Q3** Write short notes on a) Geothermal Energy b) First generation biofuel (16)
- Q4** Briefly describe about different protocols adopted worldwide to reduce CO₂ emissions. (16)
- Q5** What are the various effects of climate change? Write about India's National Action Plan on Climate Change. (16)
- Q6** What are the major non-conventional energy resources in India? Discuss how important to utilize wind based and solar based energy with the associated principles. (16)