

Registration No :

--	--	--	--	--	--	--	--	--	--

Total Number of Pages : 02

Course: BTech
Sub_Code: PCG6C001

6th Semester Back Examination: 2022-23

SUBJECT: Green Technologies

AEIE,AUTO,CIVIL, CSE,EEE,ELECTRICAL, ECE,ETC,FAT,MECH, METTA, MINING

Time : 3 Hour

Max Marks : 100

Q.Code : M134

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 are three major gases responsible for trapping heat?
- What is green technology?
- What is LEED?
- What are different fossil fuels?
- What is global warming potential?
- What is zero energy building?
- Write about carbon tax.
- What is biofuel?
- What is photosynthesis?
- What is geothermal energy?

Part-II

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

- What are the sources of green house gases?
- Explain the mechanism of photosynthesis as carbon sink.
- Explain various methods to create awareness for the promotion of green building.
- Differentiate between renewable and non-renewable sources of energy.
- What is biogas? Describe its utilization in brief.
- Explain about the elements of a carbon capture and sequestration.
- How does climate change affect us?
- How can you reduce carbon emission at your level?
- Give a report about green energy production in India.
- How old existing buildings can be made green?
- Write a short note why green technology is very important now a days.
- Write a short note on solar photo-voltaic (PV) panels.

Part-III

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

- Q3** Write short notes on a) Tidal Energy b) Green hotels and hospitals. (16)
- Q4** Describe about the causes, effects & control measures of Global Warming. (16)
- Q5** Discuss about Nuclear energy, its safety aspects, advantages and disadvantages. Have a comparison of the percentage of power from nuclear in different countries. (16)
- Q6** Discuss about the various gaseous sources used for energy need. (16)