

B. Tech. Sem - VIII (Chemical Engg.) (2014 COURSE) (CBCS) :
SUMMER - 2019
SUBJECT: ELECTIVE-IV GREEN TECHNOLOGY

Day: Thursday
Date: 23/05/2019

Time: 02.30 PM TO 05.30 PM
Max Marks: 60

S-2019-2870

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Assume Suitable data, if necessary.

Q.1 Explain in detail the role of industry and government in green technology. **(10)**

OR

Q.1 What are the sources of waste? Why recycling is necessary? Explain methods of waste treatment and recycling. **(10)**

Q.2 What is catalysis? Explain catalysis with suitable example. **(10)**

OR

Q.2 Explain in detail real time analysis for pollution prevention. **(10)**

Q.3 Explain microwave synthesis and electro organic synthesis with suitable example. **(10)**

OR

Q.3 Explain various alternative solvents used in green chemistry with suitable example. **(10)**

Q.4 What is biochemical conversion? Explain anaerobic digestion process with suitable example. **(10)**

OR

Q.4 Explain in detail hydrolysis and hydrogenation with suitable example. **(10)**

Q.5 What is WEHAB? Explain green technologies for addressing the problems of WEHAB. **(10)**

OR

Q.5 What is green innovation and sustainability? Explain the criteria for choosing appropriate green energy technologies. **(10)**

Q.6 What are the various greenhouse gases? Explain greenhouse effect in detail. **(10)**

OR

Q.6 What is green financing? Explain financial initiative by United Nations Environment Programme (UNEP). **(10)**