



K. K. Wagh Institute of Engineering Education & Research, Nashik
(An Autonomous Institute From A.Y. 2022-23)

InSem Examination-II Summer 2025	
Exam Seat No.:	
Academic Year: 2024-2025	Semester: VI
Class: TY	Program: B.Tech
Branch Code: CHE	Pattern: 2022
Name of Course: Renewable Energy	Course Code: CHE223014(A)
Max. Marks: 30	Duration: 2.30 Hrs.

Instructions: Candidates should read carefully the instructions printed on the Question Paper and on the cover page of the Answer Book, which is provided for their use.

1. This question paper contains ____ page(s).
2. Answer to each new question is to be started on a new page.
3. Assume suitable data wherever required, but justify it.
4. Draw the neat labelled diagrams, wherever necessary.
5. The last column indicates the Course Outcome and level of Blooms Taxonomy of the Question/sub-question.

Marks CO

Question No. 1

- 1 a) What are the advantages and limitation of Renewable energy sources? (7) CO1

Question No. 2

- 2 a) What is the main difference between direct and indirect energy conversion? (8) CO1

OR

- 2 b) Discuss how hydropower generates electricity and one environmental consideration that must be taken into account. (8) CO1

Question No. 3

- 3 a) What are the main applications of Biogas? (7) CO2

Question No. 4

- 4 a) Discuss different Design consideration for Digester. (8) CO2

OR

- 4 b) What are the advantages and limitation of floating drum plant? (8) CO2

..... End of question paper.....