



RAN-1240

B.Sc. (Environmental Science) Semester - VI Examination

March / April - 2019

ENV - 603: Green Chemistry : Paper - XIX

Time: 2 Hours]

[Total Marks: 50

સૂચના : / Instructions

1.

નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the details of signs on your answer book

Name of the Examination:

B.Sc. (Environmental Science) Semester - VI

Name of the Subject :

ENV - 603: Green Chemistry : Paper - XIX

Subject Code No.: 1 2 4 0

Seat No.:

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Student's Signature

2. Figures to the right indicate full marks of the question.
3. Draw neat and labeled diagrams whenever necessary.

Q.1 Give specific answers of the following:

12

- 1 How do phase transfer catalyst work?
- 2 What are the advantages in using polyaspartate (PTA) interms of ecofriendliness?
- 3 What is green chemistry? Why it is called so?
- 4 What is super critical fluid?
- 5 Explain benefits of organic synthesis under microwave?
- 6 What is E - Factor ? Explain giving examples.

- Q.2 Explain the following: (Any Two) 12**
- 1 Discuss the properties of supercritical water in terms of its phase diagram.
 - 2 Microwave heating can only accelerate the chemical transformations passing through the polar transition state-explain.
 - 3 No solvent is the best solvent in green synthesis of organic compounds-explain.
- Q.3 Answer the following :(Any Two) 16**
- 1 Why is it important to Recycle, Reduce and Reuse?
 - 2 Green chemistry is important in alternative reaction pathways -Explain.
 - 3 Enlist and explain the principles of green chemistry.
- Q.4 Write Short Notes on following: (Any Two) 10**
- 1 Sources and Types of Waste.
 - 2 Techniques in MORE chemistry.
 - 3 Advantages and disadvantages of Incineration
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