

**GOVERNMENT COLLEGE OF ENGINEERING, JALGAON**

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Name of Examination : **Summer 2021** - (Preview)Course Code & Course Name : **SH102U - Engineering Chemistry**Generated At : **19-04-2022 12:55:15**Maximum Marks : **60**Duration : **3 Hrs**[Edit](#)[Print](#)[View Answer Key](#)[Close](#)**Answer Key Submission Type:** Marking scheme without solution

Instructions:

1. All questions are compulsory.
2. Illustrate your answer with suitable figures/sketches wherever necessary.
3. Assume suitable additional data; if required.
4. Use of logarithmic table, drawing instruments and non programmable calculators is allowed.
5. Figures to the right indicate full marks.

**Q1) Write a short note on following (Any five)**

- |   |     |
|---|-----|
| a) Reverse osmosis  | [4] |
| b) Noise pollution  | [4] |
| c) Nano composites  | [4] |
| d) Metallic and non metallic fillers                              | [4] |
| e) Thermal Analysis   | [4] |
| f) Biomass as a alternative and non-conventional source of energy | [4] |

- Q2)** a) Write a informative note on proper material selection and designing to control the corrosion [05]  
b) Define Fuel. Describe the analysis coal [05]  
c) What is Lubrication? Explain the Mechanism of Lubrication. [05]

**OR**

- c) Define corrosion ,Give the cathodic and anodic protection for corrosion prevention [05]

- Q3)** a) Define polymer, Give the synthesis ,properties and applications of phenol formaldehyde resin. [05]  
b) What is Copolymerization, Describe about Polyvinyl acetate. [05]  
c) Explain the significance and determination of COD. [05]

**OR**

- c) Give the Classification of fuel. Describe about knocking and Antiknocking agents [05]

- Q4)** a) Describe about the green house effect and global warming. [05]  
b) Explain about water treatment method for municipal water supply [05]

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