


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] |
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- 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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