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New Delhi - 110062
Examination: Odd Semester Examination 2023

PAPER TITLE: APPLIED CHEMISTRY

PAPER CODE: BTECE 103

Maximum Mark: 70

Time: 3.0 Hours

Note: Please write the roll number at the top the question paper. Follow proper numbering for answering the questions. All questions are compulsory from Section A. Attempt any four questions from Section B.

Questions

<i>Q. No.</i>	<i>Section A</i>	<i>Marks</i>
<i>A1.</i>	Explain the permanent hardness of water. How to remove permanent hardness of water?	<i>5</i>
<i>A2.</i>	Explain the Conversion of coal in liquid fuels Bergius process.	<i>5</i>
<i>A3.</i>	What is the Kirchoff's equation.	<i>5</i>
<i>A4.</i>	Explain the difference of Heterogeneous and Homogeneous catalyst.	<i>5</i>
<i>A5.</i>	Explain the type and application of Natural Polymer.	<i>5</i>
<i>A6.</i>	What is Octane and cetane number?	<i>5</i>
<i>Section B</i>		
<i>B1.</i>	What is the Ziegler Natta Catalyst mechanism and their industrial uses.	<i>10</i>
<i>B2.</i>	Explain the point of kinetic gas theory at real and ideal gas system.	<i>10</i>
<i>B3.</i>	What is wet and dry corrosion and explain their protection process?	<i>10</i>
<i>B4.</i>	Explain the addition and condensation polymerization with their suitable examples?	<i>10</i>
<i>B5.</i>	What is the difference of physisorption and chemisorption?	<i>10</i>
	What is solid fuels and explain temperature carbonization?	<i>10</i>