

# CHEMISTRY

Subject Details	Questions		Marks	
	2020	2019	2020	2019
<b>Physical Chemistry 1</b>	<b>13</b>	<b>13</b>	<b>52</b>	<b>52</b>
Some Basic Concepts of Chemistry	0	0	0	0
Structure of Atom	1	1	4	4
Classification of Elements and Periodicity in Properties	1	1	4	4
Chemical Bonding and Molecular Structure	2	2	8	8
States of Matter	1	1	4	4
Thermodynamics	4	4	16	16
Equilibrium	3	3	12	12
Redox Reactions	1	1	4	4
<b>Inorganic Chemistry 1</b>	<b>4</b>	<b>4</b>	<b>16</b>	<b>16</b>
Hydrogen	1	1	4	4
The s-Block Elements	1	1	4	4
The p-Block Elements	2	2	8	8
<b>Organic Chemistry 1</b>	<b>4</b>	<b>5</b>	<b>16</b>	<b>20</b>
Organic Chemistry – Some Basic Principles	2	3	8	12

and Techniques				
Hydrocarbons	1	1	4	4
Environmental Chemistry	1	1	4	4
<b>Physical Chemistry 2</b>	<b>5</b>	<b>5</b>	<b>20</b>	<b>20</b>
The Solid State	1	1	4	4
Solutions	2	2	8	8
Electrochemistry	1	1	4	4
Chemical Kinetics	1	1	4	4
<b>Inorganic Chemistry 2</b>	<b>10</b>	<b>9</b>	<b>40</b>	<b>36</b>
Surface Chemistry	1	1	4	4
General Principles and Processes of Isolation of Elements	1	1	4	4
The p-Block Elements	2	2	8	8
The d-and f-Block Elements	2	2	8	8
Coordination Compounds	4	3	16	12
<b>Organic Chemistry 2</b>	<b>9</b>	<b>9</b>	<b>36</b>	<b>36</b>
Haloalkanes and Haloarenes	1	1	4	4
Alcohols, Phenols and Ethers	2	2	8	8
Aldehydes, Ketones and Carboxylic Acids	2	2	8	8
Amines	1	1	4	4

Biomolecules	1	1	4	4
Polymers	1	1	4	4
Chemistry in Everyday Life	1	1	4	4

# BIOLOGY

Subject Details	Questions		Marks	
	2020	2019	2020	2019
<b>Diversity in Living world and Structural Organization in plants and Animals</b>	<b>20</b>	<b>19</b>	<b>80</b>	<b>76</b>
The Living World	1	1	4	4
Biological Classification	2	2	8	8
Plant Kingdom	4	4	16	16
Animal Kingdom	5	4	20	16
Morphology of Flowering Plants	4	4	16	16
Anatomy of Flowering Plants	2	2	8	8
Structural Organisation in Animals	2	2	8	8
<b>Cell Structure and Function &amp; Plant Physiology</b>	<b>14</b>	<b>15</b>	<b>56</b>	<b>60</b>
Cell : The Unit of Life	2	2	8	8
Biomolecules	4	3	16	12
Cell Cycle and Cell Division	2	2	8	8
Transport in Plants	1	1	4	4
Mineral Nutrition	1	1	4	4
Photosynthesis in Higher Plants	2	3	8	12
Respiration in Plants	1	2	4	8

Plant Growth and Development	1	1	4	4
<b>Human physiology</b>	<b>16</b>	<b>16</b>	<b>64</b>	<b>64</b>
Digestion and Absorption	3	3	12	12
Breathing and Exchange of Gases	2	1	8	4
Body Fluids and Circulation	1	2	4	8
Excretory Products and their Elimination	2	2	8	8
Locomotion and Movement	2	2	8	8
Neural Control and Coordination	2	2	8	8
Chemical Coordination and Integration	4	4	16	16
<b>Reproduction and Genetics</b>	<b>22</b>	<b>23</b>	<b>88</b>	<b>92</b>
Reproduction in Organisms	1	2	4	8
Sexual Reproduction in Flowering Plants	4	3	16	12
Human Reproduction	3	3	12	12
Reproductive Health	2	2	8	8
Principles of Inheritance and Variation	5	5	20	20
Molecular Basis of Inheritance	5	6	20	24
Evolution	2	2	8	8
<b>Biology of Human Welfare &amp; Biotechnology and its Application</b>	<b>10</b>	<b>10</b>	<b>40</b>	<b>40</b>
Human Health and Disease	3	3	12	12

Strategies for Enhancement in Food Production	1	1	4	4
Microbes in Human Welfare	2	2	8	8
Biotechnology : Principles and Processes	2	2	8	8
Biotechnology and its Applications	2	2	8	8
<b>Ecology and environment.</b>	<b>8</b>	<b>7</b>	<b>32</b>	<b>28</b>
Organisms and Populations	2	2	8	8
Ecosystem	2	2	8	8
Biodiversity and Conservation	3	2	12	8
Environmental Issues	1	1	4	4

# PHYSICS

Subject Details	Questions		Marks	
	2020	2019	2020	2019
<b>Mechanics 1</b>	8	7	32	28
Physical World	0	0	0	0
Units And Measurements	1	1	4	4
Motion In A Straight Line	1	1	4	4
Motion In A Plane	2	1	8	4
Laws Of Motion	2	2	8	8
Work, Energy And Power	2	2	8	8
<b>Mechanics 2</b>	6	6	24	24
System Of Particles And Rotational Motion	2	2	8	8
Gravitation	1	1	4	4
Mechanical Properties Of Solids	1	1	4	4
Mechanical Properties Of Fluids	2	2	8	8
<b>Heat</b>	5	5	20	20
Thermal Properties Of Matter	1	1	4	4
Thermodynamics	3	3	12	12
Kinetic Theory Of Gases	1	1	4	4
<b>Electromagnetism</b>	12	13	48	52

Electric Charges And Fields	1	1	4	4
Electrostatic Potential And Capacitance	1	2	4	8
Current Electricity	3	3	12	12
Moving Charges And Magnetism	1	1	4	4
Magnetism And Matter	1	1	4	4
Electromagnetic Induction	2	2	8	8
Alternating Current	2	2	8	8
Electromagnetic Waves	1	1	4	4
<b>Waves And Optics</b>	<b>7</b>	<b>7</b>	<b>28</b>	<b>28</b>
Oscillations	1	2	4	8
Sound Waves	2	2	8	8
Ray Optics And Optical Instruments	3	2	12	8
Wave Optics	1	1	4	4
<b>Modern Physics</b>	<b>7</b>	<b>7</b>	<b>28</b>	<b>28</b>
Dual Nature Of Radiation And Matter	2	2	8	8
Atoms	1	1	4	4
Nuclei	1	1	4	4
Semiconductor Electronics: Materials, Devices And Simple Circuits	3	3	12	12
Communication Systems	0	0	0	0