

## **Reduced Syllabus : Class-X : Science (Biology) : Marks -30 : 2020-2021**

### **UNIT-II**

#### **Theme : The World of Living.**

**Life process :** Living being, basic concept of nutrition, Respiration, Transport and Excretion in plants and animals.

**Reproduction :** Reproduction in animals and plants (asexual and sexual), Reproductive health- need and methods of family planning, safe sex vs HIV/AIDS, child bearing and woman's health.

**Heridity :** Heridity, Mendels contribution- Laws of inheritance of traits, sex detiranination : brief introduction.

### **UNIT-V : Natural Resource**

#### **Them : Natural Resources**

**Our environment :** Eco-system, Environmental problems, Ozone depletion, koste production and their soultions, Biodegradable and non-biodegradable substanees.

### **Practicals**

#### **List of Experiments :**

1. Experimentally show that carbon dioxide is given out during respiration.
2. Studying (a) binory fission in Amoeba and (b) budding in yeast and Hydra with the help of prepared slides.

### **Class -X**

### **Blue Print of Questions**

### **Science (Biology)**

<b>Chapter Name</b>	<b>VSA (1mark)</b>	<b>SA (3 Marks)</b>	<b>LA (5 Marks)</b>	<b>Marks</b>
Life processes	1(4)	3(1)	5(1)	12
How do organisms reproduce?	--	3(1)	5(1)	8
Heredity and evolution	1(1)	3(1)	--	4
Our Environment	1(3)	3(1)	--	6
<b>Total no. of Questions</b>	<b>8</b>	<b>4</b>	<b>2</b>	<b>30</b>

## Reduced Syllabus : Class -X : Science (Chemistry) : 25 Marks

### Deleted Portion of Chemistry Syllabus : 2020-2021

#### Ch-1 : Chemical Reactions and Equations

Nothing is deleted

#### Ch-2 : Acids, Bases and Salts

2.4 : More about salts

2.4.1 : Family of salts

2.4.2 : pH of salt

2.4.3 : Chemicals from common salts.

#### Ch-3 : Metals and Non-metals

3.4 : Occurrence of Metals

3.4.1 : Extraction of Metals

3.4.2 : Enrichment ores

3.4.3 : Extracting metals low in the activity series.

3.4.4 : Extracting metals in the middle of the activity series.

3.4.5 : Extracting metals towards the top of the activity series.

3.4.6 : Refining of metals.

3.5 : Corrosion.

3.5.1 : Prevention of Corrosion.

#### Ch-4 : Carbon and its Compounds.

4.4 : Some important carbon compounds- Ethanol and Ethanoic Acid.

4.5 : Soaps and detergents.

#### Ch-5 : Periodic Classification of Elements.

Nothing is deleted.

### Blue Print of Question : Class -X : Pre-Board/Final Examination : Science (Chemistry)

Chapter / Topic	VSA (1mark)	SA (3 Marks)	LA (5 Marks)	Marks
1. রাসায়নিক বিক্রিয়া এবং সমীকরণ	1(1)	3(1)	--	4
2. অম্ল, ক্ষারক এবং লবণ	1(1)	3(1)	--	4
3. ধাতু এবং অধাতু	1(2)	3(1)	--	5
4. কার্বন এবং এর যৌগসমূহ	1(2)	--	5(1)	7
5. মৌলসমূহের পর্যায়গত শ্রেণিবিন্যাস	--	--	5(1)	5
<b>Questions</b>	<b>1x6</b>	<b>3x3</b>	<b>5x2</b>	<b>25 (11Q)</b>

## **Reduced Syllabus : Class X : Science (Physics) : 25 Marks: 2020-2021**

**Theme : Natural Phenomena**

**Unit III : Natural Phenomena**

- 10. Light - Reflection and Refraction :** Reflection of light by curved surfaces, Images formed by spherical mirrors, centre of curvature, principal axis, principal focus, focal length, mirror formula (Derivation not required), magnification.  
Refraction; Laws of refraction, refractive index.  
Refraction of light by spherical lens; Image formed by spherical lenses; Lens formula (Derivation not required); Magnification, Power of a lens.
- 11. The Human Eye and colourful world :** Refraction of light through a prism, dispersion of light.

**Theme : How things Work**

**Unit IV : Effect of Current**

- 12. Electricity :** Electric current, potential difference and electric current. Ohm's law; Resistance, resistivity, Factors on which the resistance of a conductor depends. Heating effect of electric current and its applications in daily life. Electric power, Interrelation between P, V, I and R.
- 13. Magnetic effects of current :** Magnetic field, field lines, field due to a current carrying conductor, Force on current carrying conductor, Fleming's Left Hand Rule, Electromagnetic induction. Induced potential difference, Induced current. Fleming's Right Hand Rule.

### **PRACTICAL**

1. Studying the dependence of potential difference (V) across a resistor on the current (I) Passing through it and determine its resistance. Also plotting a graph between V and I.
2. Determination of the focal length of :  
(i) Concave mirror, (ii) Convex lens by obtaining the image of a distant object.
3. Tracing the path of a ray of light passing through a rectangular glass slab for different angles of incidence. Measure the angle of incidence, angle of refraction, angle of emergence and interpret the result.
4. Tracing the path of the rays of light through a glass prism.

**Subject Content : Class X : Science (Physics) : 25 marks**

Unit	Chapter	Marks	Total marks
III Natural Phenomena	Light-Reflection and Refraction	8	25
	The Human Eye and the colourful world	4	
IV Effects of current	Electricity	7	
	Magnetic effects of electric current	6	

**Blue Print of Question : Class X : Science (Physics) : 25 Marks : 2020-2021**

Unit	Chapter	1 Mark	3Marks	5 Marks	Question	Total
III Natural Phenomena	Light Reflection and Refraction	--	1	1	2	8
	The Human Eye and Colourful World	1	1	---	2	4
IV Effects of current	Electricity	2	--	1	3	7
	Magnetic effects of current	3	1	--	4	6
	Total	1x6	3x3	5x2	11	25