

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 soulutions, 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)

Chapter Name	VSA (1mark)	SA (3 Marks)	LA (5 Marks)	Marks
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
Total no. of Questions	8	4	2	30

Model Question

Class - X

Sub - Science (Biology)

Full Marks- 30

Section-A:

Each Questions Carries 1 Mark

1 x 8 = 8

1. The autotrophic mode of nutrition requires –
a) Carbon dioxide and Water (b) Chlorophyll (c) Sunlight (d) All of the above.
2. The kidneys in human being are a part of the system for –
a) Nutrition (b) Respiration (c) Excretion (d) Circulation
3. Which of the following equation is appropriate for photosynthesis –
(a) $6\text{CO}_2 + 12\text{H}_2\text{O} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{CO}_2 + \text{H}_2\text{O}$
(b) $6\text{CO}_2 + 12\text{H}_2\text{O} + \text{sunlight} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + \text{O}_2 + 6\text{H}_2\text{O}$
(c) $6\text{CO}_2 + 12\text{H}_2\text{O} + \text{Chlorophyll} + \text{Sunlight} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{CO}_2 + 6\text{H}_2\text{O}$
(d) $6\text{CO}_2 + 12\text{H}_2\text{O} + \text{Chlorophyll} + \text{Sunlight} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{CO}_2 + 6\text{H}_2\text{O}$
4. The first trophic level of a food chain is occupied by –
a) Herbivores (b) Carnivores (c) Green Plants (d) Decomposers
5. Name the chemical substance which is mainly responsible for Ozone layer depletion.
6. Give example of one Biodegradable Waste ?
7. Who is considered as the Father of Genetics ?
8. Give the name of chief respiratory substrate of living cell ?

Section - B

Each Questions Carries 3 Marks

3x4=12

9. How is the sex of the child determined genetically in human beings ?
10. Write 3(three) major difference between aerobic and anaerobic respiration?
11. What is Ozone ? How is it formed ? Why is it necessary to conserve it ?
12. What is the unit of asexual reproduction ? Mention 2(two) major differences between asexual and sexual reproduction ? (1+2)

OR

What is vegetative propagation ? Write any two advantages of vegetative propagation ? 1+2

Section - C

Each Questions Carries 5 Marks

5x2=10

13. Draw a labelled diagram of the internal structure of human heart. Discuss the flow of circulation through it ? 3 (Fig.2+lab1)+2
- OR**
a) Draw a neat labelled diagram of a nephron ?
b) Mention any two methods by which plants excrete their waste products? 3+2
14. Define regeneration ? Give example. Write 3(three) major contraceptives used to prevent unwanted pregnancy? 1+1+3

OR

- a) What is placenta ? Mention any 2(two) functions of it.
- (b) Write the role of Seminal Vesicle and prostate gland present in human male? 1+2