

Unique Past Papers

Chapter Wise

BIOLOGY 9

(2018, 2019, 2021, 2022 & 2023)

Lahore Board, Faisalabad Board, Multan Board, Gujranwala Board, Sahiwal Board, D.G. Khan Board, Sargodha Board, Rawalpindi Board & Bahawalpur Board.

Unit 1: Introduction to Biology

Q.1: From which two Greek words, the word Biology is made? 3 Times

Divisions and Branches of Biology

- Q.2: What is Socio-biology? 1 Time
- Q.3: What is difference between Zoology and Botany? 11 Times
- Q.4: Differentiate between Morphology and physiology. 1 Time
- Q.5: Differentiate between morphology and anatomy 3 Times
- Q.6: Differentiate between Microbiology and Morphology 6 Times
- Q.7: Differentiate between Morphology and History. 4 Times
- Q.8: Differentiate between Cell Biology and Histology. 7 Times
- Q.9: Differentiate between Environmental Biology and Cell Biology. 2 Times
- Q.10: Define Biochemistry and Morphology. 3 Times
- Q.11: Define pharmacology and immunology. 12 Times
- Q.12: What is meant by fossils? 3 Times
- Q.13: What are parasites? Define parasitology. 3 Times
- Q.14: Write the difference between physiology and taxonomy? 2 Times
- Q.15: Define Molecular biology? Also give example. 8 Times
- Q.16: Define genetics and embryology. 6 Times
- Q.17: What is meant by Bio economics? 2 Times



- Q.20: What do you mean by Horticulture? And how it is related to agriculture? 1 Time
- Q.21: What do you know about the profession Farming? 4 Time
- Q.22: **What are major biological issues nowadays?** 8 Times

Relationship of Biology with other Sciences

- Q.23: **What is Biogeography? Define it.** 7 Times
- Q.24: What is meant by Biophysics? Define it. 2 Times
- Q.25: Define Biometry and Biochemistry. 1 Time

Quran and Biology

- Q.26: **Write achievements of Bu Ali Sina in biology.** 10 Times
- Q.27: **What are famous books of Jabir Bin Hayan and Abdul Malik Asmai.** 15 Times
- Q.28: Why is Jabir Bin Hayan famous? 4 Times
- Q.29: Write down the important contributions of Abdul Malik Asmai in biology. 1 Time

Levels of Organization

- Q.30: Write down the levels of organization in sequence. 1Time
- Q.31: **Write down the names of groups of biomolecules and give example.** 13 Times
- Q.32: Define Bio element and Biomolecule. 1 Time
- Q.33: **Differentiate between Macromolecules and Macromolecules with examples.** 22 Times
- Q.34: **What is Community Level? Give Examples of complex and simple communities.** 8 Times
- Q.35: **Differentiate between Species and Habitat.** 22 Times
- Q.36: **Differentiate between population and community?** 16 Times
- Q.37: **What is Biosphere level?** 24 Times
- Q.38: **Define Tissues and organ also give example.** 14 Times
- Q.39: How do you differentiate between cell level and tissue level? 3 Times
- Q.40: Define organ. Give one example. 5 Times
- Q.41: The organ system level of animals is more complex than plants. Why? 1 Times
- Q.42: Write two functions of muscular tissue. 1 Time
- Q.43: Write the names of two tissues present in stomach. 1 Times

Cellular Organization

- Q.44: Differentiate between vegetative and reproductive organs. 3 Times
- Q.45: Define Colonial Organization and give example. 6 Times
- Q.46: **What is the scientific name of mustard plant? Describe its two advantages/ uses/ benefits.** 18 Times
- Q.47: Write down the scientific name of Crow and Frog. And mustard plant. 1Time



- Q.48: What is meant by Cellular organization? Give example. 1 Time
 Q.49: Define Unicellular and Multicellular organisms with one example. 1 Time

Unit 2: Solving a Biological Problem

Biological Method

- Q.1: Differentiate between Scientific and Biological Method. 9 Times
 Q.2: When a biologist adopt a biological method? 1 Time
 Q.3: How we can say man has always been a biologist? 5 Times

Biological Problem, Hypothesis, Deduction, Experimentation

- Q.4: Write down the names of steps included in biological method. 6 Times
 Q.5: Define Observation. How many types of it are there? 1 Time
 Q.6: Why quantitative observation is considered more accurate than qualitative observation. 5 Times
 Q.7: Differentiate between qualitative and quantitative observation. 25 Times
 Q.8: Define Hypothesis. 9 Times
 Q.9: How Hypothesis is made? 5 Times
 Q.10: Write Characteristics of a hypothesis? 24 Times
 Q.11: Differentiate between deduction and theory. 20 Times
 Q.12: Differentiate between Control and Experimental control group. 14 Times
 Q.13: What is meant by summarization of Results? 6 Times
 Q.14: What is meant by reporting of results? 10 Times

Study of Malaria

- Q.15: What is the importance of Cinchona bark? 1 Time
 Q.16: What do you mean by the word malaria? 2 Times
 Q.17: What is incubation periods? 8 Times
 Q.18: Differentiate between culex and Aedes mosquitoes. 8 Times
 Q.19: Write down two controls of malaria. 1 Time
 Q.20: Write down the important observations of A.F.A King. 3 Times
 Q.21: What is the relation of Cinchona with quina-quina? 3 Times
 Q.22: Write down importance of salvia for mosquito. 1 Time
 Q.23: Why female mosquito injects saliva in to wound before drawing blood? 1 Time
 Q.24: Why do we do itching after biting of mosquito? 2 Times
 Q.25: How welts appear when mosquito bites? 1 Times
 Q.26: Write down contributions of French Army physician Laveran. 1 Time

Theory, Law and Principle

- Q.27: How a theory is formulated? 12 Times
 Q.28: What is meant by Productive theory? Give their benefits. 2 Times



- Q.29:** Define scientific law and give two examples of biological law. **21 Times**
Q.30: Differentiate between theory and law. **9 Times**

Data Organization

- Q.31:** What are different formats of Data Organization? **10 Times**
Q.32: What is data? **1 Time**
Q.33: Differentiate between Ratio and Proportion. **16 Times**
Q.34: What is the importance of “Data analysis” in biological method? **3 Times**
Q.35: What is the role of bio-informatics in data analysis? **1 Time**
Q.36: Why Data analysis is necessary? How it is done? **1 Time**

Unit 3: Biodiversity

Introduction

- Q.1:** What is meant by Biodiversity? **21 Times**
Q.2: Write importance of Biodiversity. **17 Times**
Q.3: Differentiate between Flora and Fauna. **4 Times**

Classification of Biodiversity

- Q.4:** What is difference between Taxonomy and systematics? **20 Times**
Q.5: What is meant by Taxa? Write name of any Taxa. **7 Times**
Q.6: What is the basis of classification? Explain. **4 Times**
Q.7: Write down two aims of classification. **25 Times**
Q.8: Differentiate between Class and Order. **3 Times**
Q.9: Write down simple classification of “Human”. **6 Times**
Q.10: Give simple classification of Pea. **3 Times**
Q.11: Write down the scientific name of human being and pea plant. **2 Times**
Q.12: Mule is result of unnatural cross. Why? **3 Times**

History of Classification System

- Q.13:** Describe the contributions of Carolus Linnaeus in classification. **3 Times**
Q.14: What is difference between mode of nutrition of Fungi and animals? **2 Times**

Two Kingdom Classification

- Q.15:** What is meant by two kingdom Classification? On which thing is it based. **5 Times**
Q.16: What are differences between Autotrophs and Heterotrophs? **6 Times**

Three Kingdom Classification

- Q.17:** What is meant by three kingdom classification? **2 Times**

Five Kingdom Classification

- Q.18:** Who and when introduced the Five-kingdom classification System? **2 Times**
Q.19: Write the names of all kingdoms in five kingdom system. **3 Times**



- Q.20: What is base of Five kingdom System? 4 Times
 Q.21: What type of organisms are included in kingdom monera? Give example. 8 Times
 Q.22: Give reason why viruses not included in five Kingdom system? 4 Times
 Q.23: Viruses are acellular Why? 4 Times
 Q.24: Differential between prions and viroid. 8 Times
 Q.25: What do you know about kingdom Protista? 1 Time
 Q.26: How alga differs from plants? Write two points. 1 Time
 Q.27: How fungi differ from other plants? Write two points. 11 Times

Binomial Nomenclature

- Q.28: What is Binomial Nomenclature? Who introduced it first. 23 Times
 Q.29: Write down scientific name of Onion, houses Crow, human and pea. 5 Times

Conservation of Biodiversity

- Q.30: What is difference between extinct and endangered species? 25 Times
 Q.31: On which four factors the diversity of organisms in a region depends upon? 2 Times

Impact of Humans on Biodiversity

- Q.32: What are effects of human being on Biodiversity? 1 Time
 Q.33: What is role of eucalyptus plant in disturbing water? 1 Time

Deforestation and Over Hunting

- Q.34: Define deforestation and write its two causes. 7 Times
 Q.35: Write two effects of deforestation. 1 Time
 Q.36: What are main reasons of species extinction? 4 Times
 Q.37: What are the effects of over hunting on animals population. 2 Times

Steps for Conservation of Biodiversity

- Q.38: Which two organizations are working for protection of biodiversity in Pakistan. 1 Time

Endangered Species

- Q.39: Briefly introduce the Houbara Bustard & Marco Polo Sheep. 9 Times
 Q.40: Why indus Dolphin is an endangered species? 1 Time

Unit 4: Cells and Tissues

Microscopy

- Q.1: Define Microscopy 6 Times
 Q.2: What is Micrograph? 4 Times
 Q.3: What is the difference between the magnification and resolution of a microscope? 14 Times



- Q.4: Difference between Light microscope (LM) and Electron Microscope (EM).
1 Time
- Q.5: Write the names of electron microscopes which are used by biologists.
3 Times
- Q.6: **Differentiate between transmission electron microscope and scanning electron microscope.**
9 Times
- Q.7: Why Prions and Viroids are not included in the kingdom classification system?
1 Time

History of Cell Theory

- Q.8: **Write down the principles of cell theory.**
18 Times
- Q.9: Describe the contribution of Mathias Schielden and Theodar Schwann in formation of cell theory.
3 Times
- Q.10: Describe one achievement of each Robert Hook and Robert Brown.
1 Time

Cellular Structure and Functions

- Q.11: Describe the composition of cell wall of fungi and Prokaryotes.
3 Times
- Q.12: **What is difference between primary and secondary wall in plants?**
18 Times
- Q.13: **Define Plasmodesmata.**
10 Times

Cell Membrane

- Q.14: **What is Fluid Mosaic Model?**
10 Times
- Q.15: Describe two functions of cell membrane.
4 Times
- Q.16: What is difference between cell membrane and plasma membrane?
4 Times
- Q.17: Why is plasma membrane called semi-permeable membrane?
4 Times

Cytoplasm

- Q.18: Which is called Cytoplasm? Which organic molecules are in it?
4 Times
- Q.19: Describe two functions of Cytoplasm.
5 Times

Cytoskeleton

- Q.20: Write about Cytoskeleton.
5 Times
- Q.21: What is difference between microtubules and microfilaments?
1 Time

Cellular Organelles

- Q.22: Define cell organelles.
1 Time
- Q.23: Write the names of any four cell organelles.
1 Time

Nucleus

- Q.24: What is the role of nucleus in a cell?
1 Time
- Q.25: **Define Ribosomes. Also describe the importance of Ribosomes.**
12 Times
- Q.26: Write function of Mitochondria.
4 Times
- Q.27: Differentiate between cristae and cisternae.
1 Time
- Q.28: **What are chloroplast?**
7 Times

- Q.29: Define Chromoplast and Leucoplast. 1 Time
- Q.30: What are the functions of Leucoplasts, Chromoplasts and chloroplast?** 6 Times
- Q.31: What is difference between Thylakoids and Stroma? 3 Times
- Q.32: Differentiate between rough and smooth endoplasmic reticulum. 6 Times
- Q.33: Describe two functions of smooth endoplasmic reticulum. 6 Times
- Q.34: Writ the functions of golgi apparatus. 2 Times
- Q.35: What is Lysosomes? Give its functions.** 8 Times
- Q.36: What are centriole? Write down their functions?** 8 Times

Prokaryotes and Eukaryotes

- Q.37: Write difference between prokaryotes and eukaryotes. 5 Times
- Q.38: How cells work as an open system? 2 Times

Passage of Molecules into and out of Cell

- Q.39: How active transport is different from passive transport? 2 Times
- Q.40: What is meant by passive diffusion?** 10 Times
- Q.41: Define facilitated diffusion.** 12 Times
- Q.42: What is meant by Osmosis? Also define active transport. 2 Times
- Q.43: What is difference between diffusion and osmosis?** 9 Times
- Q.44: Define reverse osmosis. 4 Times
- Q.45: Define Plasmolysis. 2 Times
- Q.46: What is meant by Hypertonic and Hypotonic solution?** 9 Times
- Q.47: Define Turgor Pressure.** 9 Times
- Q.48: What is filtration? 4 Times
- Q.49: What is Endocytosis? Give types.** 13 Times
- Q.50: What is meant by Pinocytosis? 5 Times
- Q.51: What is Exocytose? 5 Times

Plant and Animal Tissues

- Q.52: Write names of different Tissues of plants and animals. 1 Time
- Q.53: Differentiate between Skeletal Muscles and smooth Muscles. 4 Times
- Q.54: Name any two types of epithelial tissue. 1 Time
- Q.55: Explain Cuboidal and Columnar Epithelium. 1 Time
- Q.56: Differentiate between simple tissues and compound tissues in plants. 4 Times
- Q.57: What are sclerenchyma tissues? 4 Times
- Q.58: Define Support tissue and write names of types of support tissues. 1 Time
- Q.59: Define Permanent tissues. Name its types. 1 Time
- Q.60: What do you mean by intercalary meristem? 1 Time
- Q.61: What is difference between xylem and phloem tissue? 4 Times
- Q.62: What is meant by collenchyma tissue? 1 Time
- Q.63: Differentiate between sieve tubes cells and companion cells. 1 Time

Unit 5: Cell Cycle

Introduction

- Q.1:** Define cell cycle. Name its two major phase. **15 Times**
- Q.2:** What is G-1 phase? **6 Times**
- Q.3:** Write types of Reproduction. **1 Time**
- Q.4:** Differentiate between chromatin and chromosome. **7 Times**
- Q.5:** Differentiate between interphase and mitotic phase. **2 Times**
- Q.6:** What is meant by G₀ phase? **5 Times**
- Q.7:** What changes occur in cell during S-phase of cell cycle? **1 Time**

Mitosis

- Q.8:** When and who discovered the process of Mitosis? **5 Times**
- Q.9:** How is metaphase plate formed? **1 Time**
- Q.10:** Define Mitosis and Mitotic Spindle. **1 Time**
- Q.11:** Define mitosis. In which cells it occurs? **17 Times**
- Q.12:** What is Binary fission? **1 Time**

Phases of Mitosis

- Q.13:** Differentiate between karyokinesis and cytokinesis. **23 Times**
- Q.14:** Name the phases of Karyokinesis. **7 Times**
- Q.15:** What is kinetochore? **3 Times**
- Q.16:** Differentiate between S.phase and G₂ phase. **2 Times**
- Q.17:** How Cytokinesis occur in animal cells? **8 Times**
- Q.18:** How cytokinesis is different in plant cells as compared to animal cells? **15 Times**
- Q.19:** What is Phragmoplast? How it forms? **24 Times**
- Q.20:** Why mitosis is absent in prokaryotes? **6 Times**
- Q.21:** Write the function of Centrosomes in Cell Division. **6 Times**

Significance of Mitosis

- Q.22:** Write two significances of Mitosis? **4 Times**
- Q.23:** Define alternation of generations. **4 Times**
- Q.24:** What is Regeneration? Give an example. **24 Times**
- Q.25:** What is the role of mitosis in development and growth. **2 Times**
- Q.26:** Explain briefly how asexual reproduction occurs in Hydra? **4 Times**
- Q.27:** What is difference between growth and development? **1 Time**

Error in Mitosis

- Q.28:** Write down causes of tumor formation. **1 Time**
- Q.29:** How mitosis helps in cell replacement of body? **1 Time**
- Q.30:** What is difference about Malignant and benign tumors? **19 Times**
- Q.31:** What is meant by Metastasis? **16 Times**



Q.32: Why are tumors dangerous for human body?

1 Time

Meiosis

Q.33: Define Meiosis. Which biologist discover Meiosis?

13 Times

Q.34: Write difference between mitosis and meiosis.

10 Times

Q.35: Differentiate diploid and haploid cell.

6 Times

Q.36: Differentiate between somatic and germ cells.

16 Times

Q.37: Plants do not make their gametes by meiosis? Why?

1 Time

Q.38: Why meiosis is called reduction division?

1 Time

Phases of Meiosis

Q.39: What changes take place in metaphase-I during meiosis?

1 Time

Q.40: When and how does synapsis occur?

13 Times

Q.41: Define bivalent. Why it is called tetrad?

2 Times

Q.42: Write difference between chiasmata and crossing over.

25 Times

Q.43: When and who discovered crossing over in Drosophilla Melanogaster?

1 Time

Significance of Meiosis

Q.44: Write significance of meiosis in term of variation in organisms.

4 Times

Q.45: What is difference between disjunction and non disjunction?

20 Times

Error in Meiosis

Q.46: What is necrosis? Write down its two causes?

10 Times

Q.47: Define Apoptosis.

6 Times

Q.48: Write benefits of Apoptosis.

2 Times

Q.49: How blebs are different from apoptotic bodies?

5 Times

Q.50: Write the difference between apoptosis and necrosis.

4 Times

Q.51: What is the role of Lysosome in necrosis?

2 Times

Unit 6: Enzyme

Introduction

Q.1: Define Substrate and Product.

15 Times

Q.2: What is difference between substrate and active site.

1 Time

Q.3: What is difference between anabolism and Catabolism?

23 Times

Q.4: How does enzymes lower the activation energy?

24 Times

Q.5: Who first used the term enzyme?

3 Times

Q.6: Write names of four enzymes.

4 Times

Characteristics of Enzymes

Q.7: Describe any two properties of enzyme.

8 Times

Q.8: Are all biocatalysts protein in nature? Explain.

1 Time

Q.9: Write down to benefits of Biocatalysts.

12 Times



- Q.10: Differentiate between Extra cellular and intracellular.** 9 Times
Q.11: Who gave the concept of Metabolism? Also define Metabolism. 18 Times
 Q.12: Name its two types. Define metabolism. What is its function? 2 Times
Q.13: What is metabolic pathways? 7 Times
 Q.14: Define inhibitors and Activators. 2 Times
 Q.15: Are all enzymes made up of amino acids? 1 Time
Q.16: What is the difference between prosthetic group and co-enzyme? 21 Times
Q.17: Give difference between Cofactor and Co-enzyme. 14 Times

Uses of Enzymes

- Q.18: What is role/use of enzyme in paper industry? 5 Times
Q.19: What are the uses in daily life? Write the use of enzymes in food and beverage industry. 14 Times
Q.20: What is use of enzymes in biological detergents? 7 Times
 Q.21: Define biocatalysts and write two benefits of biocatalysts. 1 Time

Factors Affecting on Rate of Enzymes

- Q.22: What factor affect the rate of enzyme reaction? Write name. 7 Times
Q.23: What is meant by Active site? Write its benefits. 17 Times
 Q.24: What is meant by saturation of active sites? 6 Times
Q.25: Define Optimum temperature. What is Optimum temperature of human enzyme? 17 Times
Q.26: What is Denaturation of enzyme? 19 Times
Q.27: Define Optimum pH with an example. 11 Times
 Q.28: In which medium pepsin and trypsin enzymes work? 1 Time
 Q.29: Differentiate between protease enzyme and Amylase enzyme. 1 Time

Mechanism of Enzyme Action

- Q.30: Write and explain the equation for the mechanism of enzyme action. 3 Times
Q.31: Define about lock and key model of enzyme action. 24 Times
 Q.32: Why induced fit model is more acceptable than lock and key model? 1 Time
 Q.33: Write the categories of enzymes on the basic of the site where they work. 1 Time

Specificity of Enzymes

- Q.34: Write note on specification of Enzymes.** 11 Times
 Q.35: What is function of amylase and lipase? 1 Time

Unit 7: Bioenergetics

Role of Bioenergetics and ATP

- Q.1: Who discovered the ATP Molecule? What is its function in cell?** 23 Times



- Q.2: What is Abbreviation of ATP **5 Times**
 Q.3: How much energy is evolved from one mole of ATP? **4 Times**
Q.4: Write down the three subunits of ATP. Sketch molecular structure of adenosine triphosphate. 19 Times
Q.5: Explain Bioenergetics with the help of an example. 14 Times
 Q.6: Write the role of Bioenergetics and ATP in cell. **2 Times**
Q.7: Differentiate between Oxidation and Reduction. 21 Times
 Q.8: Explain that electrons can be source of energy during oxidation reduction reactions. **2 Times**
 Q.9: Why oxidation – reduction reactions is called Redox- reaction? **1 Time**
 Q.10: Define two types of energy in living organisms. **1 Time**

Photosynthesis

- Q.11: Define photosynthesis. Also write its balanced equation. 22 Times**
 Q.12: What is meant by photosystem? **3 Times**
 Q.13: Write two importance condition for photosynthesis. **1 Times**
 Q.14: Which products are produced during photosynthesis? **3 Times**
 Q.15: Why and when Calvin was awarded Nobel prize? **1 Time**
 Q.16: Write down raw materials for photosynthesis. **1 Time**
Q.17: Define light reaction. Why it is called Z Scheme? Define Dark Reactions. 7 Times
 Q.18: What is photolysis of water? **5 Times**
 Q.19: What is the Role of light in photosynthesis? **2 Times**
Q.20: Define pigments? 7 Times
 Q.21: What are accessory pigments? Give examples. **6 Times**
 Q.22: What is the role of chlorophyll in photosynthesis? **1 Time**
 Q.23: What is meant by photosynthetic pigments? **1 Time**

Limiting Factors of Photosynthesis

- Q.24: Write names of four limiting factors for photosynthesis. **2 Times**
Q.25: Write the effects of light intensity and temperature on photosynthesis. 13 Times
Q.26: What is the effect of CO₂ concentration on photosynthesis? 11 Times
 Q.27: How CO₂ concentration effect the rate of photosynthesis?

Respiration

- Q.28: Define respiration. **5 Times**
 Q.29: What is the source of fuel used in respiration? **2 Times**
 Q.30: Name the compounds produced during respiration. **2 Times**
 Q.31: Why it is incorrect to say that energy relationship step of respiration is electron transport chain? **2 Times**
Q.32: Define Aerobic respiration and write its equation. 13 Times
 Q.33: What is Significance of anaerobic respiration? **3 Times**
Q.34: What is difference between aerobic and anaerobic respiration? 23 Times



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|--|-----------------|
| Q.35: Define Fermentation Name its two types. | 5 Times |
| Q.36: Differentiate between Alcoholic fermentation and Lactic acid fermentation. | 3 Times |
| Q.37: How is Soya Sauce made? | 1 Time |
| Q.38: Write the uses of Fermentation in yeast | 1 Time |
| Q.39: What are anaerobes? Write two examples. | 2 Times |
| Q.40: What is glycolysis? Where it occurs? | 15 Times |
| Q.41: Shortly explain glycolysis. | 2 Times |
| Q.42: What is Kreb Cycle? | 5 Times |
| Q.43: What is meant by Electron transport chain? | 3 Times |
| Q.44: Which compound enters into Kreb's cycle? | 1 Time |
| Q.45: Difference between photosynthesis and Respiration. | 4 Times |

Unit 8: Nutrition

Minerals Nutrition in Organisms

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|--|-----------------|
| Q.1: What do you mean by Nutrition? What is its importance in plants and animals? | 8 Times |
| Q.2: What is difference between nutrition and nutrients? | 7 Times |
| Q.3: Define Eutrophication. | 5 Times |
| Q.4: Differentiate between macronutrients and Micronutrients. | 25 Times |
| Q.5: Differentiate between Major Minerals and Trace Minerals. | 5 Times |
| Q.6: What is difference between Organic and inorganic fertilizer? | 7 Times |
| Q.7: What is the importance of fertilizers in Agriculture? | 1 Time |
| Q.8: What is role of nitrogen and magnesium in plants life? | |
| Q.9: What is the role of calcium in plants? | 8 Times |
| Q.10: Write the role of potassium in plant life. | 1 Time |
| Q.11: Describe the role of iron in plant's life. | 1 Time |
| Q.12: Define fertilizers. | 3 Times |

Components of Food

- | | |
|--|-----------------|
| Q.13: Write components of human food. | 2 Times |
| Q.14: Write the function of Lipids in body and what are their sources? | 5 Times |
| Q.15: What is meant by saturated and unsaturated fatty acids. | 14 Times |
| Q.16: What are the health risks if we take more saturated fatty acids in our diet. | 2 Times |
| Q.17: What is protein and from where we get it? | 8 Times |
| Q.18: Differentiate between Fat soluble and water soluble vitamins. | 6 Times |
| Q.19: What are source of vitamin C? What is functions of Vitamin C in body? | 7 Times |
| Q.20: Define scurvy. Write its two symptoms. | 8 Times |
| Q.21: Write down two symptoms of scurvy. | 1 Time |
| Q.22: Name the two disease cause by deficiency of vitamin D. | 3 Times |



- Q.23: What cause of osteomalacia? What are its symptoms, causes? 3 Times
 Q.24: What is meant by vitamins? Write two function of vitamin A. 3 Times
 Q.25: What is night blindness? 3 Times
 Q.26: From which sources vitamin A can obtained? 5 Times
Q.27: Write the role of potassium and calcium is human body. 16 Times
 Q.28: What is function of calcium and iron in human body? 1 Time
 Q.29: How does iodine function in our body? 1 Time
 Q.30: What is world food program? Write its two functions. 1 Time
 Q.31: Which diseases occur due to lack of vitamin “C”and “D”. 1 Time
 Q.32: How saturated fatty acids cause heart disease? 1 Time
 Q.33: Write down any four sources of Carbohydrates. 1 Time
Q.34: What is meant by dietaryfibre? 25 Times
 Q.35: Write down any two advantages of fibrous food. 4 Times
 Q.36: Write sources of insoluble and soluble dietary fibre. 5 Times

Balanced Diet

- Q.37: Define Balance diet.** 7 Times

Problem Related to Nutrition

- Q.38: Define malnutrition. Also give names of its any two types/forms.** 14 Times
 Q.39: What is Protein energy malnutrition? 3 Times
 Q.40: What is kwashiorkor? 4 Times
Q.41: What do you know about marasmus? 8 Times
 Q.42: What are minerals and from where we get them? 2 Times
 Q.43: Name two diseases cause by the deficiency of minerals. 3 Times
Q.44: Describe reason of goiter and its effects on body 9 Times
 Q.45: What is aneamia? Write down its causes. 2 Times
 Q.46: What is Obesity? Why it is called the mother of diseases? 4 Times
 Q.47: Write two major reasons of famine. 2 Times
 Q.48: What is meant by Starvation? 1 Time
 Q.49: What is Drought? Write its two disadvantages. 6 Times
 Q.50: What is meant by WFP? 1 Time

Process of Food Digestion

- Q.51: What is meant by digestion?** 8 Times
 Q.52: What is difference between assimilation and absorption? 1 Time
 Q.53: Write the difference between assimilation and defection. 2 Times
 Q.54: Why is digestion necessary for human cells? 1 Time
 Q.55: What is difference between pepsin and pepsinogen? 2 Times
 Q.56: Write names of two diseases of gut. 1 Time
 Q.57: Which parts are there in human alimentary canal? 1 Time
 Q.58: What is the length of oesophagus in human? 1 Time
 Q.59: Define Mastication. 5 Times
Q.60: How will you differentiate between bolus and chyme? 23 Times



- Q.61: What do you mean by peristalsis? **6 Times**
 Q.62: What is gastric juice? Name the enzyme present in gastric juice. **4 Times**
 Q.63: What is gastric juice? Also write down its chemical composition. **5 Times**
Q.64: What is the affect of HCL on pepsin? 7 Times
Q.65: Define Villi and describe its function. 9 Times
 Q.66: What is sphincter? Give names of its two types. **3 Times**
 Q.67: Define churning. Write its functions. **5 Times**
 Q.68: Write the name of two juices secreted in small intestine of man. **5 Times**
 Q.69: Write any two functions of large intestine. **3 Times**
 Q.70: Write three parts of large intestine. **3 Times**
 Q.71: What is Appendix? **10 Times**
 Q.72: What is oral cavity? Write its two functions. **3 Times**
Q.73: Write two functions of liver other than digestion of food. 7 Times
 Q.74: What is Bile juice and what is its function? **4 Times**

Diseases of Alimentary Canal

- Q.75: What is Diarrhoea? What are its causes? **6 Times**
 Q.76: What is ulcer? Write two symptoms of ulcer. **4 Times**
Q.77: What is gastric ulcer? Write its causes. 9 Times
 Q.78: What are major causes of constipation? Give two symptoms of constipation. **5 Times**

Unit 9: Transport

Transport in Plants

- Q.1: Describe function of Xylem and phloem. **5 Times**
 Q.2: Write the function of root in plant. **3 Times**
Q.3: Write function of roots hairs in the roots of plants. 7 Times

Transpiration

- Q.4: What is meant by transpiration? Describe mode of transpiration. 20 Times**
 Q.5: Give harmful and beneficial aspects of transpiration. **6 Times**
 Q.6: What do you mean by stomatal transpiration? **6 Times**
 Q.7: Which factors are responsible for opening or closing of stomata? **6 Times**
Q.8: What is the effect of temperature on the rate of transpiration? 8 Times
 Q.9: What is transpiration pull? Give reasons for its creation. **24 Times**
Q.10: Define cohesion- tension theory. 14 Times
Q.11: What is the role of sink in transport of food? What is meant by source in plant? Explain with an example. 22 Times
Q.12: Define pressure flow Mechanism. 7 Times

Transporting Human

- Q.13: Write the name of two transport systems in human beings. **6 Times**
- Q.14: What are the main components of human blood circulatory system?
- Q.15: What do you mean by blood? Write composition of a healthy man. What is blood? Write down the total volume of blood in adult human. **6 Times**
- Q.16: Write the names of any two plasma proteins. **4 Times**
- Q.17: **How is plasma separated from blood?** **15 Times**
- Q.18: **How much white blood cells are present in human body and what are their functions?** **12 Times**
- Q.19: **What do you mean by pus? How is it formed?** **15 Times**
- Q.20: **Patients bleed from the nose, gums and under the skin in dengue fever. Why?** **12 Times**
- Q.21: **Write the name of mosquito who spreads dengue.** **13 Times**
- Q.22: **Write the symptoms of Dengue fever.** **25 Times**

Blood Disorders

- Q.23: What is Leukemia? **5 Times**
- Q.24: What is thalassemia and treatment? **5 Times**
- Q.25: What is meant by blood group system? **4 Times**
- Q.26: Define Antigen. **4 Times**

Blood Group System

- Q.27: What is Rh blood group system and who discovered it? **6 Times**
- Q.28: **Which persons are universal donors and universal recipients?** **10 Times**

Heart

- Q.29: What is the function of pericardial fluid and where is it found? **6 Times**
- Q.30: **Define the terms cardiac cycle and heart beat.** **15 Times**
- Q.31: How the sound of lubdubb is produced during heart beat? **4 Times**
- Q.32: **Why human heart is called double pump?** **10 Times**
- Q.33: Differentiate between bicuspid and tricuspid valve. **5 Times**
- Q.34: **Write the definition of systole and diastole.** **10 Times**
- Q.35: **Define pulmonary circulation and systemic circulation.** **11 Times**

Blood Vessels

- Q.36: Define Capillaries. **6 Times**
- Q.37: **Differentiate between arteries and veins.** **17 Times**

Cardiovascular Diseases

- Q.38: What is vascular surgery? **6 Times**
- Q.39: What is meant by Arteriosclerosis? Write the names of two diseases of human blood. **4 Times**
- Q.40: Differentiate between thrombus and embolus. **4 Times**
- Q.41: **What is Angina pectoris?** **8 Times**

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