

AMIT AJMANI'S ACADEMY
D-16/82/SECTOR-7, ROHINI, DELHI
PH: 9810476588, 9953371470

X BIOLOGY CLASS TEST

M.M.-30

Name of Student: _____ **Class & Sub:** _____
Topic of Test: Life Processes—Nutrition No. 1 **Date :** _____

1. Why diffusion is insufficient to meet the oxygen requirements of multi-cellular organisms like humans? (Three reasons) 2
 2. Differentiate between autotrophic and heterotrophic mode of nutrition. 2
 3. What is photosynthesis? Give its reaction. 2
 4. What are biocatalysts? 1
 5. In which form are excess carbohydrates stored in plants? Why? 2
 6. State the three events that occur during photosynthesis. 3
 7. What are stomata? State their function. 2
 8. From where does exchange of gases take place in plants? 2
 9. Leaves of a healthy potted plant were coated with Vaseline. Will this plant remain healthy for long? Give reasons for your answer. 2
 10. Define Transpiration. 1
 11. Show open and closed stomata through a diagram. 1
 12. How is the opening and closing of stomata controlled? OR What controls the opening and closing of stomata? How? 2
 13. Draw a cross section of a leaf showing the upper and lower epidermis, chloroplasts and guard cells. 2
 14. What is chlorophyll? State its function in photosynthesis. 2
 15. How are desert plants different from other plants for making their food? 2
 16. What are chloroplasts? What do they contain? 2
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Name of Student: _____ **Class & Sub:** _____
Topic of Test: Life Processes—Nutrition No. 2 **Date :** _____

- Q1.** What is Bile? State its functions. (Three Functions) 4
Q2. Where is bile secreted? Where is it stored temporarily? 1
Q3. Name any two parasitic plants and two parasitic animals. 2
Q4. State the function of Pancreas in human digestion. 3
Q5. How is the small intestine designed to absorb digested food? 3
Q6. How are the fats digested in our bodies? Where does this process take place? 2
Q7. What are the end products of the process of digestion in the small intestine? 2
Q8. Where in human alimentary canal is absorption of food and water takes place? 2
Q9. Name the enzyme present in saliva. State its function. 2
Q10. What is peristalsis or peristaltic movement? 1
Q11. Name secretions produced by gastric glands and state the functions of each. 4
Q12. State the role of hydrochloric acid in our stomach. 2
Q13. What are villi? State their function. 2
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M.M.-25

Name of Student: _____ Class & Sub: _____
Topic of Test: Life Processes—Nutrition No. 3 Date : _____

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| Q1. Explain the HUMAN DIGESTIVE SYSTEM | 10 |
| Q2. What is phagocytosis? | 1 |
| Q3. Why do herbivores have longer small intestine as compared to the carnivores? | 1 |
| Q4. What is dental caries? How is it caused? | 2 |
| Q5. Why does raw bread taste sweeter on continuous mastication (chewing)? | 2 |
| Q6. Explain the process of nutrition in Amoeba with diagram. | 3 |
| Q7. How does the process of nutrition occur in Paramecium? | 2 |
| Q8. Name two unicellular organisms. | 1 |
| Q9: Differentiate between Pepsin and Trypsin (Three Differences) | 3 |
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Name of Student: _____ **Class & Sub:** _____
Topic of Test: Life Processes--Respiration No. 1 **Date :** _____

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|---|---|
| 1. Differentiate between breathing and respiration. (6 Points) | 3 |
| 2. Differentiate between Photosynthesis and Respiration. (6 Points) | 3 |
| 3. Differentiate between Aerobic and Anaerobic Respiration (5 Points) | 3 |
| 4. What is Glycolysis? | 1 |
| 5. Why do we feel pain and cramps in our legs while climbing the staircase? | 1 |
| 6. State and explain the types of respiration. | 5 |
| 7. Name the two respiratory gases. | 1 |
| 8. What advantage do terrestrial organisms have over aquatic organisms with regard to obtaining oxygen for respiration? | 2 |
| 9. Explain compensation point. | 2 |
| 10. Name the gaseous waste product of plants during day time and during night time. | 1 |
| 11. How is respiration in plants different from that in animals? (Any 6 Points) | 3 |
| 12. How respiration/exchange of gases occur in plants? | 3 |
| 13. Why land plants die if their roots remain water logged? | 2 |
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Name of Student: _____ **Class & Sub:** _____
Topic of Test: Life Processes--Respiration No. 2 **Date :** _____

- Q1.** How respiration occurs in unicellular organisms? 1
Q2. How is oxygen and carbon dioxide transported in human beings? 2
Q3. What is the other name of voice box? State its function. 2
Q4. Why there is always a residual volume of gases left in the lungs? 1
Q5. Name the respiratory pigment in humans. Where is it present? State its role. 2
Q6. How are lungs designed in humans to maximize the area for exchange of gases? 3
Q7. Why walls of trachea do not collapse when there is less air in it? 1
Q8. Respiration is a catabolic process. Comment. 1
Q9. State the changes in diaphragm, intercostals muscles and chest cavity during inhalation and exhalation. 2
Q10. Compare between alcoholic fermentation and lactic acid fermentation. 2
Q11. Explain with the help of a flow chart, the various ways in which glucose is oxidized in various organisms. 3
Q12. What are gills? State their function. 2
Q13. Explain the mechanism of breathing. 3
Q14. Explain the Human Respiratory System with diagram 5
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Name of Student: _____ **Class & Sub:** _____
Topic of Test: Life Processes—Transportation No. 1 **Date :** _____

- Q1. What is blood? State and explain the various constituents of blood along with their functions. 5
- Q2. State a few functions of blood. (Minimum 4) 2
- Q3. State the functions of Pulmonary artery, Pulmonary vein, Aorta and Vena cava. 4
- Q4. What are the consequences of deficiency of haemoglobin in our body? 2
- Q5. Why are the walls of ventricles thicker than the atrium? 2
- Q6. Why circulation in humans is called double circulation? 1
- Q7. Why are valves present in heart? 1
- Q8. Explain the process of double circulation in humans with flow chart. 5
- Q9. Differentiate between Arteries and Veins (Any 6) 3
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Name of Student: _____ **Class & Sub:** _____
Topic of Test: Life Processes—Transportation No. 2 **Date :** _____

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|---|---|
| Q1. Draw the diagram of double circulation in humans. | 3 |
| Q2. Define systolic pressure and diastolic pressure with their values. | 2 |
| Q3. Why fishes have two chambered heart? | 2 |
| Q4. Explain why reptiles and amphibians have three chambered heart? | 2 |
| Q5. What is blood pressure? Name the instrument used to measure blood pressure. | 2 |
| Q6. What is hypertension? State its harmful effects. | 2 |
| Q7. Compare the three types of Blood Vessels | 4 |
| Q8. What is lymph? State its function. | 2 |
| Q9. How is lymph formed in our body? | 2 |
| Q10. Differentiate between blood and lymph. | 2 |
| Q11. Why SA node is called the pacemaker of the heart? | 1 |
| Q12. Why is lymph called an 'Extra cellular fluid'? | 1 |
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Name of Student: _____ **Class & Sub:** _____
Topic of Test: Life Processes—Transportation No. 3 **Date :** _____

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|---|---|
| Q1. Differentiate between lymphatic capillaries and blood capillaries. | 2 |
| Q2. Write a short note on the Lymphatic System of our body. | 3 |
| Q3. Differentiate between xylem and phloem. | 3 |
| Q4. Define transpiration. | 1 |
| Q5. Define translocation. | 1 |
| Q6. Why is transpiration called a necessary evil? | 1 |
| Q7. Explain how water moves upwards from roots to plant body through xylem? | 2 |
| Q8. Name the types of xylem and state the function of each part. | 3 |
| Q9. What are Sieve tubes? State their function. | 2 |
| Q0. Differentiate between the transport of materials in xylem and phloem? | 2 |
| Q11. Explain the Human Heart with the help of a labeled diagram. | 5 |
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M.M.-20

Name of Student: _____ **Class & Sub:** _____
Topic of Test: Life Processes—Excretion No. 1 **Date :** _____

- Q1. Define Excretion. 1
Q2. How the unicellular organisms get rid of their waste products? 2
Q3. Name the excretory unit and excretory organs in human body. 1
Q4. Name the main nitrogenous waste in our body. How is it produced? 2
Q5. Explain the Human Excretory System with diagram. 5
Q6. Explain the mechanism of urine formation in humans with diagram OR
Explain Nephron and its functioning with the help of a diagram. 3
Q7. State the functions of kidneys in humans. 2
Q8. Write a short note on Hemodialysis. 2
Q9. Explain various methods used by the plants to get rid of their solid, liquid
and gaseous excretory products. 2
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ANSWERS