

Biology (Class X)

Life Processes (Worksheet Subjective)

- 1. What are life processes?
- 2. What are enzymes?
- 3. Why is our food carbon based?
- 4. Why is diffusion not enough to meet the needs of multicellular organisms?
- Name and describe the mode of nutrition of algae, fungi and bacteria
- 6. What are the major events during photosynthesis? Write the equation of photosynthesis.
- 7. What are the raw materials for Photosynthesis?
- What are the products of photolysis of water?
- 9. How do desert plants carry out photosynthesis?
- 10. Draw a diagram for open stomatal pore.
- 11. What causes opening and closing of stomata?
- 12. How will you prove that light is necessary for photosynthesis?
- 13. Give reasons-
 - a) We use variegated leaf in activity 5.1 (NCERT Page 82)
 - b) Leaf is boiled in alcohol
 - c) Plant is kept in a dark room
 - d) lodine solution is used
 - e) KOH is used in activity 5.2 (NCERT Page 83)
 - f) The bell jar is sealed with vaseline
- 14. What is the similarity between chlorophyll and haemoglobin? What is the difference?
- 15. Draw a diagram for nutrition in amoeba.
- 16. Name an organism which shows
 - a) extracellular digestion
 - b) Intracellular digestion
- 17. How is food moved along the gut?

- 18. Write two functions of hydrochloric acid in stomach.
- 19. List all the digestive glands in our digestive system, enzyme or juice produced by them and their respective roles in the process of digestion. (make a table)
- 20. Differentiate between
 - a) saprophytic nutrition and parasitic nutrition
 - b) Pepsin and salivary amylase
 - c) Pepsin and Trypsin
- 21. Name the three secretions of gastric glands.
- 22. What is the function of mucus in stomach?
- 23. Name the sphincter which regulates the exit of fecal matter from the anus.
- 24. Give two functions of bile juice. By which organ is it produced? Where is it stored?
- 25. Bile contains no enzymes but still it is important for digestion. Why?
- 26. What is the role of saliva in digestion?
- 27. Describe the mechanism of aerobic respiration.
- 28. What is the difference between
 - a) Breathing and respiration
 - b) inhalation and exhalation
- 29. How are Oxygen and Carbon dioxide transported in our body?
- 30. What is the fate of glucose molecule in anaerobic respiration in yeast and lactobacillus bacteria.
- 31. Name the common process and its site in both anaerobic and aerobic respiration.
- 32. Why is it essential to separate oxygenated and deoxygenated blood in mammals and birds?



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- 33. Explain the process of breathing including the role of muscles in inhalation.
- 34. What are the modes of respiration in bacteria and fungi?
- 35. Why do plants need less energy than animals?
- 36. What happens to the energy released during respiration?
- a) Name the blood vessel that brings oxygenated blood to human heart.
 - b) which Chamber of human heart receives oxygenated blood
 - c) oxygenated blood is sent to all the parts of the body from this chamber.
- 38. What prevents blood from flowing backwards in veins?
- 39. Give two advantages of blood clotting.
- 40. Why are the walls of the ventricle thick?
- 41. Draw a diagram for double circulation.
- 42. Name one unicellular organism which respires anaerobically.
- 43. Why does the heart beat? How is it caused?
- 44. What is meant by systolic and diastolic pressure? What are their normal values?
- 45. Why is blood red?
- 46. Name the device that measures blood pressure.
- 47. What is the normal blood pressure of man?
- 48. Why are capillaries thin walled?
- 49. What is lymph? What are its functions?
- 50. Which function is only performed by lymph but not by blood?
- 51. What is the liquid part of blood called? What are the functions of this part?
- 52. How many types of blood vessels are there in human body? Name them.
- 53. Define transpiration.

- 54. Which are the two transport systems in plants?
- 55. Briefly explain the mechanism of ascent of sap in plants.
- 56. Name the two forces responsible for transport of water in plants.
- 57. How does water enter the root cells?
- 58. What are the two roles performed by kidney?
- 59. Draw diagram of excretory system in human beings and label Aorta, Vena cava, urinary bladder and urethra.
- 60. Name two dissolved substances which are absorbed in small intestine and completely or partially reabsorbed from the kidney tubule back into the blood.
- 61. What is the Cup shaped structure of nephron called? What happens there?
- 62. What is the other name for Artificial kidney? When is it required? How is it different from normal kidney?
- 63. On what factors does the amount of urine produced depend?
- 64. Differentiate between Ureter and Urethra.
- 65. Leaves of a potted plant were coated with Vaseline to block stomata. State three reasons why this plant will not remain healthy for long.
- 66. What is the major gas released by plants
 - a) during the day
 - b) during the night
 - also explain why?
- 67. Give examples of solid, liquid and gaseous waste excreted by plants. How is this excretion brought about?
- 68. Draw labelled diagram for nephron.
- 69. What is translocation? Why is it essential for plants?



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- 70. What does phloem transport?
- 71. Compare the functioning of alveoli in lungs and nephrons in kidney with respect to their structure and function.

