

## M.M.: 60

# General Instructions:

(i) There are 21 questions in this paper.

- (ii) All questions are compulsory.
- 1. Name two substances that are absorbed from the small intestine and reabsorbed in the kidney. [2]

Biology (Class X)

Life Processes (Test – 2)

- 2. Where do plants store their waste products?
- 3. Draw a labelled diagram for a Nephron. Identify the part of nephron where filtration takes place. [3]
- 4. Name the largest gland in human body? What does it secrete? What is the function of this secretion?

[2]

- 5. Differentiate between
  - arteries and veins. а
  - b. Trypsin and pepsin
  - Write the functions of-
  - villi a.

6.

- cartilage rings of trachea b.
- c. diaphragm
- d. peristalsis
- e. sphincter
- f. mucus in stomach
- 7. What are the functions of HCl in stomach? How would digestion be affected if the pH of stomach was above 7? [2]
- 8. What is lymph? How is it different from Blood ? What are its functions ?
- 9. Give reasons --
  - The small intestine of goat is longer than that of a tiger a.
  - b. bread taste sweet after chewing for some time
  - c. lungs always contain a volume of air called residual volume
  - d. amoeba is heterotrophic holozoic
  - e. we destarch a plant before carrying out experiments on photosynthesis
  - f. we use germinating seeds and potassium Hydroxide in the experiment to confirm that carbon dioxide is necessary for photosynthesis. [6]
- 10. With the flow chart explain the different modes of respiration. What is the common step of aerobic and anaerobic respiration ? Where does it take place? [5]
- 11. With a labelled diagram explain the structure of heart. Identify the artery that carries deoxygenated blood. [5]
- 12. Where does protein digestion begin ? Where is it completed? What are the end products of digestion of protein and fats? [3]
- 13. Leaves of a healthy potted plant are coated with Vaseline . Will this plant remain healthy ? Give three reasons to support your answer. [3]

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#### Time: 90 min

[3]

[2]

[4]

[3]

1



# Life Processes (Test - 2)

- 14. Explain the process of inhalation.
- 15. Write the three events of photosynthesis. How are desert plants adapted to carry out photosynthesis?

[3]

- 16. What is the role of transpiration and osmosis in absorption and transport of water and minerals in a plant? [3]
- 17. How does translocation take place?
- 18. Name the factors on which the amount of water reabsorbed during urine formation depends. [2]
- 19. Compare the alveoli in lungs and nephrons in the Kidney with respect to their structure and functions.

## [2]

- 20. Name the structure that controls the exit of undigested food from body. [1]
- 21. A doctor measures blood pressure of a person as 160 / 90 mm Hg. Name the instrument used. What is the significance of the measured blood pressure and the likely suggestions of the doctor. [2]



[2]

[2]