

Second Terminal Evaluation 2017-18

BIOLOGY

Time : 1½ Hours
Score : 40

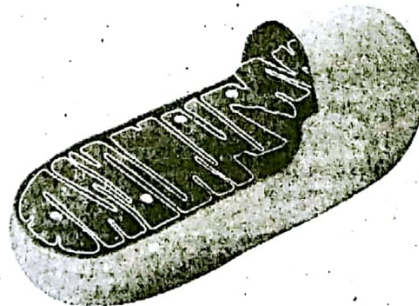
Std. : IX

Instructions :

1. First 15 minute is given as cool off time. This time is to be used for reading and understanding the questions.
2. Answer the questions based on instructions.
3. Answer the questions according to the score and time.

I. Answer all from questions 1 to 6. Each question carries 1 score. (5 x 1 = 5)

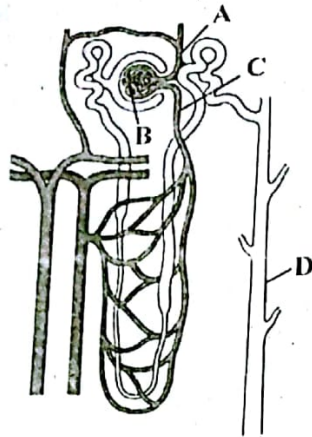
1. Find out the wrong pair from the list given below.
 - (a) Starch - Tubers
 - (b) Protein - Legumes
 - (c) Fats - Oil seeds
 - (d) Sucrose - Fruits
2. Read the statements given below. Make corrections, if any in the portion underlined.
 - (a) Absorption of salts take place through active transport.
 - (b) Absorption of water in the small intestine takes place by Diffusion.
3. Which among the following is not a function of plasma proteins ?
 - (a) Regulates blood pressure
 - (b) Transport of oxygen
 - (c) Synthesis of antibodies
 - (d) Blood clotting
- 4.



Which phase of the cellular respiration occurs in this cell organelle ?

- | | |
|-----------------|------------------|
| (a) Inspiration | (c) Glycolysis |
| (b) Expiration | (d) Krebs' cycle |

5.

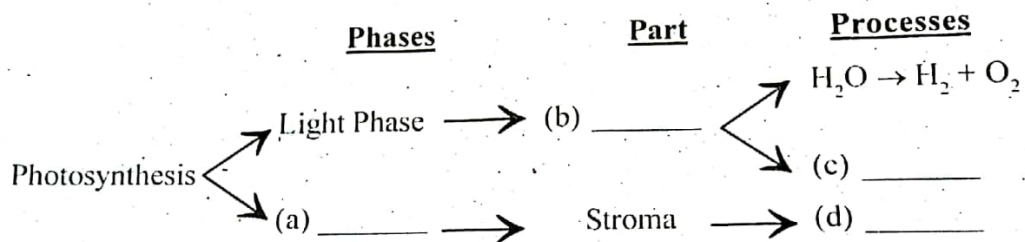


Which part in the illustration helps in ultrafiltration?

- (i) A
- (ii) B
- (iii) C
- (iv) D

II. Answer any 6 from questions 6 to 12. Each question carries 2 score. (6 x 2 = 12)

6. Observe the illustration and answer the following questions.



- (i) Find out and write (a) and (b)
- (ii) Write the processes (c) and (d)

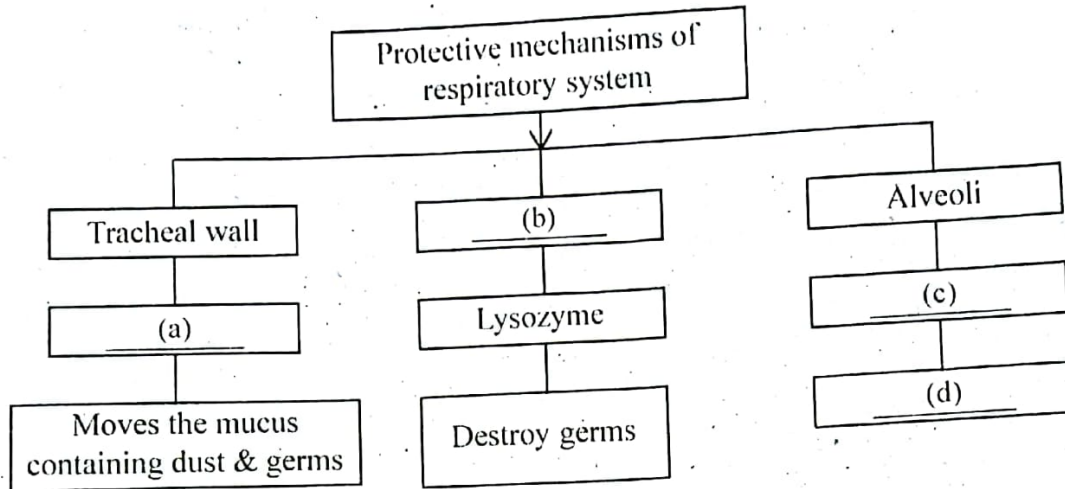
7. Fill up the blanks in the table.

| Nutrients | Simple components formed by digestion |
|---------------|---------------------------------------|
| (i) (a) _____ | Glucose |
| (ii) Fat | (b) _____ (c) _____ |
| (iii) Protein | (d) _____ |

8. Rearrange the column B according to the column A.

| A | B |
|------------------|-------------|
| Blood Plasma | Pericardium |
| Leucocytes (WBC) | Pleura |
| Lungs | Globulin |
| Heart | Monocytes |

9. Complete the flowchart.



10. (a) What is the reason behind the sour taste when milk turns into curd?
 (b) Which bacteria helps this process?
 (c) How much energy is liberated from a glucose molecule due to this process?

11. Mention the factors in red blood cell that conduct respiratory gases.

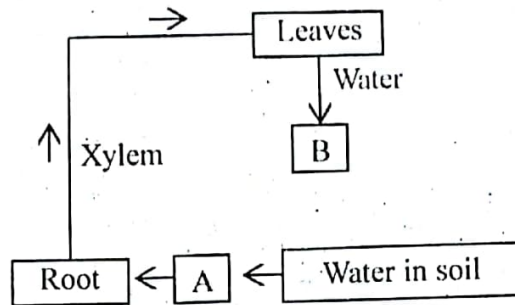
12. Rearrange the steps of Haemodialysis in the correct order.

- (a) Wastes from the blood are diffused into the dialysing fluid when it flows through the cellophane tube.
 (b) Heparin is added to prevent coagulation.
 (c) Purified blood is pumped back to the veins through another tube.
 (d) Blood from the artery is pumped into the dialysis unit.

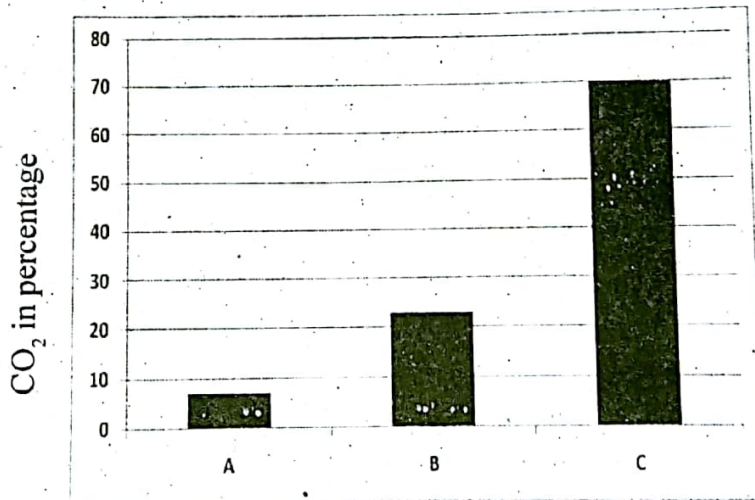
III. Answer any 5 from questions 13 to 19. Each question carries 3 score.

(5 x 3 = 15)

13. Observe the illustration on conduction of water in plants and answer the questions given below.



- (a) Name the processes indicated as A & B.
- (b) How does the increase in rate of B affect water conduction in plants? Given reason.
- (c) How far the structure of xylem suited to its function?
14. Observe the graph showing the expulsion of carbon dioxide from the cells and answer the following questions.



- (a) Explain B & C as shown in the example A.

Example : A - Dissolved in plasma water

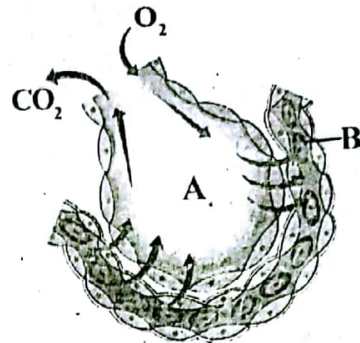
B - _____

C - _____

- (b) Mention the products formed in the reactions indicated as B & C.

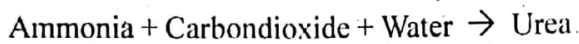
15. Write three main view points to be included in a speech related to the world anti tobacco day.

16. Observe the illustration showing the exchange of gases during respiration and answer the following questions.



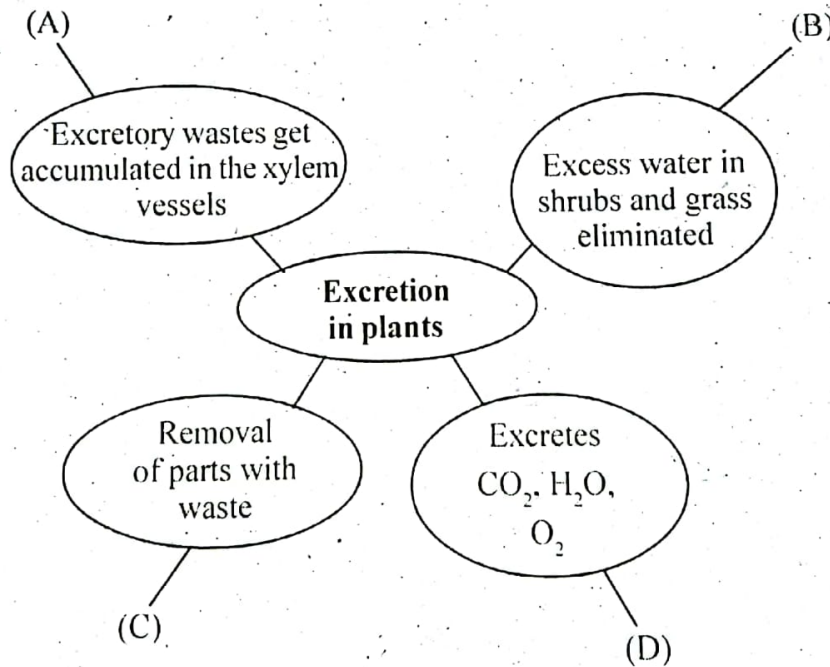
- (a) Why does oxygen from 'A' diffuses to 'B'?
- (b) 'A' is highly suitable for the exchange of gases. Justify.

17. Analyse the following chemical equation and answer the questions.



- (a) Where does ammonia form ? How ?
- (b) In which organ does the given reaction take place ?
- (c) Analyse the function of this organ on the basis of the above reaction:

18. Observe the illustration related to excretion in plants and answer the questions.

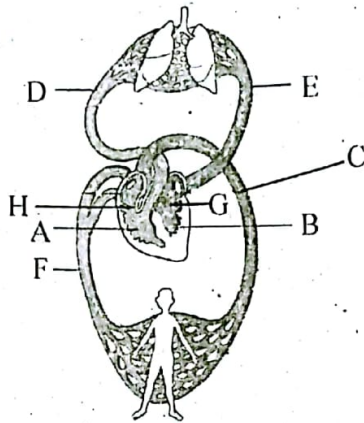


- (a) Write the name of the parts indicated as B & D.
- (b) Write the name of the processes indicated as A & C.
- (c) Plants do not need an excretory system. Why ?

19. A patient with both kidneys being non-functional was hospitalised.
- Write the name of this disease condition.
 - What are the main symptoms of this disease?
 - Mention its remedial measures?

IV. Answer any 2 from questions 20 to 22. Each question carries 4 score. (2 x 4 = 8)

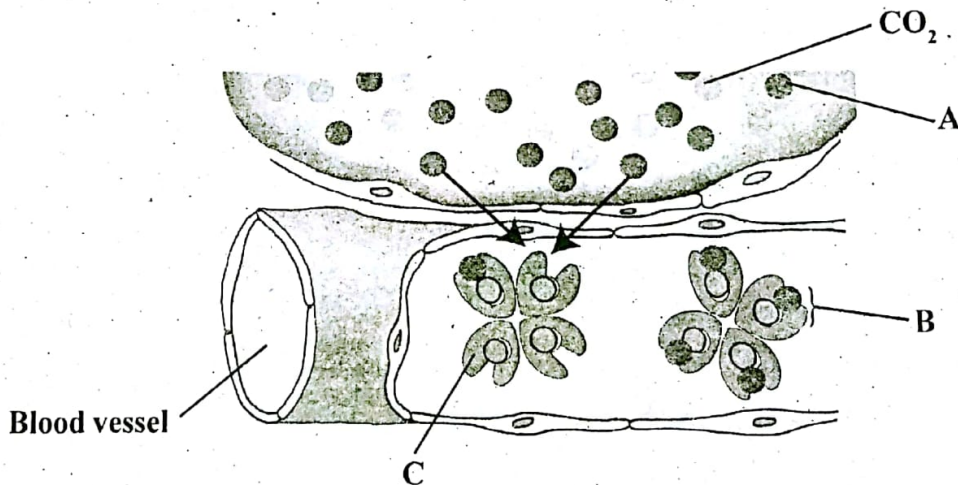
20. Observe the illustration. Find out and write the names of A, B, C, D, E, F, G, H on the basis of the indicators given below.



Indicators:

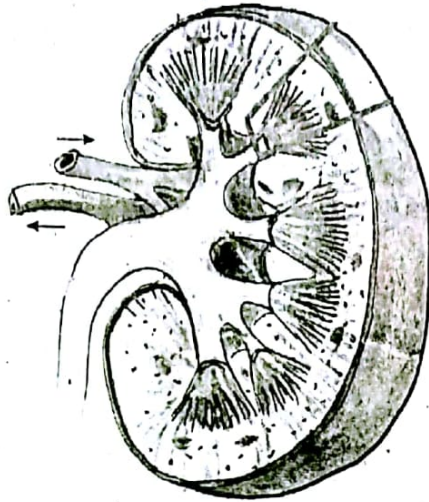
- A, B : Chambers of heart
 C, D, E, F : Blood vessels
 H, G : Valves between the heart chambers

21. Observe the illustration and answer the questions given below.



- Write the relation between A & B.
- What happens to B when it reaches tissues?
- Which mineral is essential for the synthesis of C?

22. Redraw the diagram showing the longitudinal section of kidney. Name and label the following parts.



- (a) Region where urine is collected from the filters.
 - (b) Inner darker region of kidney.
 - (c) Bowmann's capsules are present in this region.
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