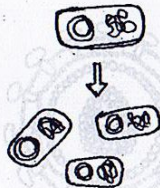


8.



A



B

- (a) What is called the Biotechnology? 1
- (b) Why is DNA called the physical basis of heredity? Explain. 2
- (c) Explain the stages of the figure-'A'. 3
- (d) Analyze the role of the figure-'B' in treatment. 4

Marks

01 Set

BIOLOGY (CREATIVE)

[According to the Syllabus of 2025]

Subject Code :

1	3	8
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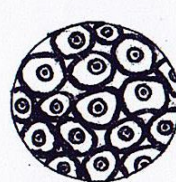
Time—2 hours and 35 minutes

Full marks—50

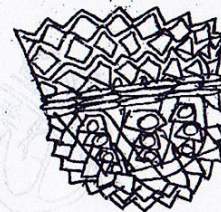
[N.B. The figures in the right margin indicate full marks. Read the stems carefully and answer the associated questions correctly. Answer any five questions.]

Marks

1.



A



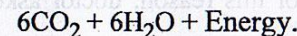
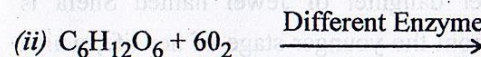
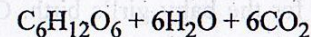
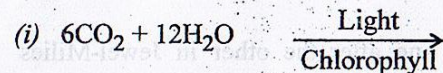
B



C

- (a) What is taxonomy? 1
- (b) Which muscle is called voluntary-involuntary muscle? Explain. 2
- (c) Describe the structural characteristics of the figure-'A'. 3
- (d) Analyze the role of 'B' and 'C' in the translocation in plants. 4

2. Answer the following questions by seeing the stems reactions :



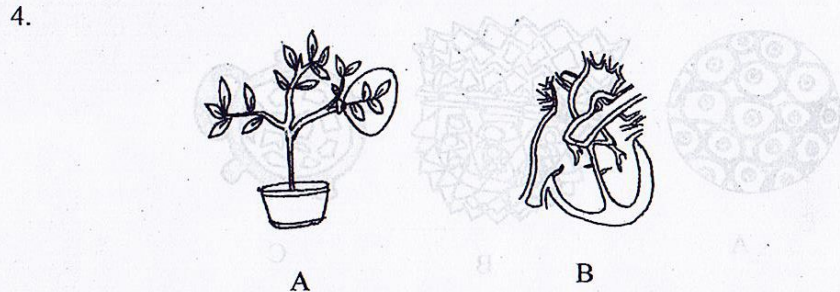
- (a) What is mineral nutrition? 1
- (b) What is the type of the carbohydrate of potatoes? Explain. 2
- (c) Describe third step of the reaction number (ii) of the stem. 3
- (d) Analyze the interdependence of both reactions for keeping alive the living world. 4

[Please turn over

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3. Mina is very lazy. She spends the day doing nothing. She is 17 years old, weight is 78kg and the height is 154cm. She eats 325gm of rice, 180gm of beef and 50gm of edible oil every day.
- (a) What is called passive absorption? 1
- (b) Which type of epithelial tissue remain present in vertebrate animals skin? Explain. 2
- (c) Calculate the BMR of Mina of the stem. 3
- (d) What is her daily calorie intake with food? Analyze. 4



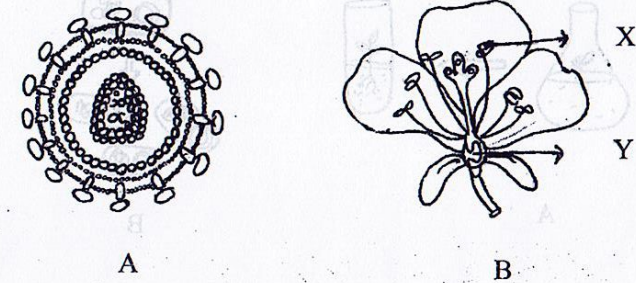
- (a) What is blood pressure? 1
- (b) Which blood group is called the universal donor? Explain. 2
- (c) Describe the structure of the figure-‘B’. 3
- (d) Figure-‘A’ in the stem has both the merits and demerits. Give a comparative analysis. 4

5. Three daughters were born one after the other in Jewel-Milies family. Jewel’s mother blames Mili for the baby girl’s birth. On the other hand, the elder daughter of Jewel named Shefa is suffering by the anemia from the younger stage of her life, which is blood related genetical problem. For this reason, doctor asked not to eat iron enriched food.

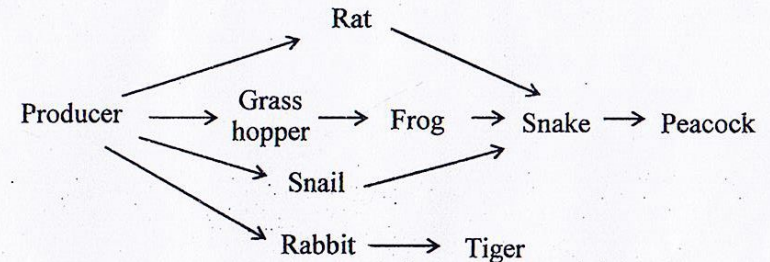
- (a) What is gene? 1
- (b) What is colourblindness? Explain. 2
- (c) Is it right to blame Mili? Explain 3
- (d) Analyze the possibility of healthy living of Shefa. 4

Marks

6.



- (a) What is fertilization? 1
- (b) What is the sex of Dhatura flower? Explain. 2
- (c) Explain the causes of disease caused by the diagram-‘A’. 3
- (d) Analyze the role of ‘X’ and ‘Y’ in plant reproduction. 4



- (a) What is called the trophic level? 1
- (b) Algae and fungi coexist in what kind of relationship? Explain. 2
- (c) Explain the smallest food chain of the stem. 3
- (d) What would be the disadvantage to the ecosystem in the absence of 3rd consumers of top most food chain of the stem? Analyze. 4

[Please turn over]

