

Model Question of SSC Examination 2021 for All Board

Biology

Subject Code

1	3	8
---	---	---

Time — 2 hours 35 minutes

Creative Essay Type

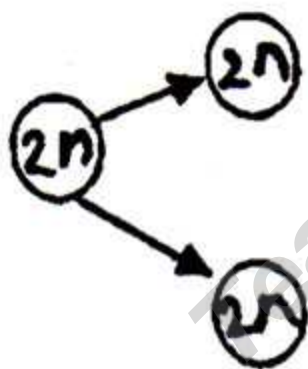
Full marks — 50

[N.B. -The figures in the right margin indicate full marks. Read the stems attentively and answer any five of the following questions.]

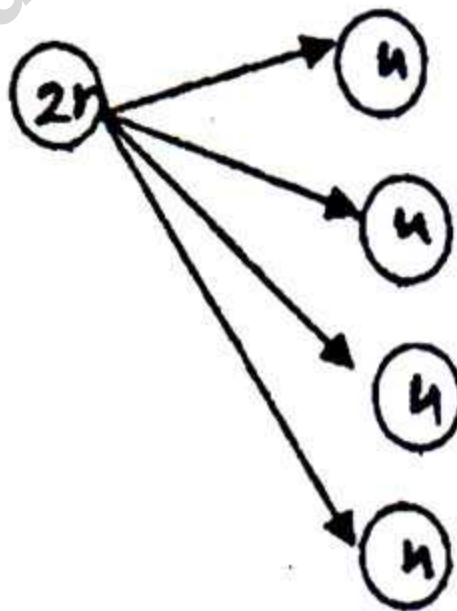
1. ► 'X' is an animal cell which has no centriole and 'Y' is one kind of tissue which can contract and expand.

- What is Endocrinology? 1
- What are the functions of Lysosome? 2
- Draw a labelled diagram of the cell 'X'. 3
- Explain the importance of the tissue 'Y'. 4

2. ★



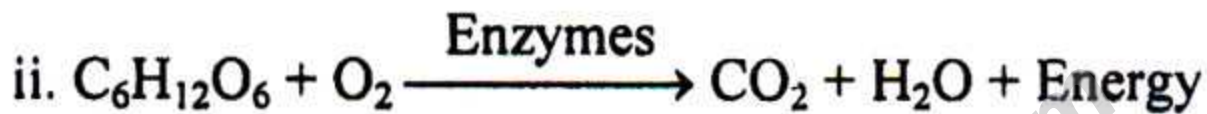
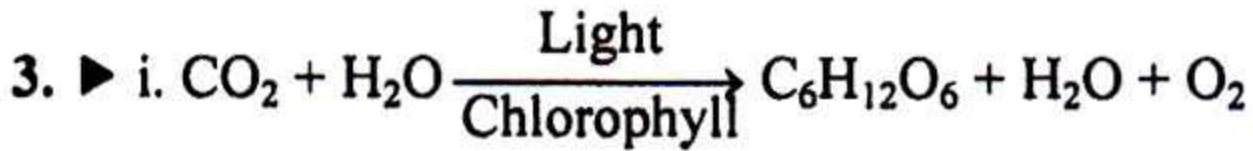
Process-X



Process-Y

- What is traction fibre? 1
- Why ATP is called biological coin? 2

- c. Write the differences between the process X and Y. 3
- d. Explain what problems may emerge if the process expressed in the Fig-Y does not accomplish? 4



- a. What is photolysis? 1
- b. Why calvin cycle is called C₃ cycle? 2
- c. Describe the first phase of the process (i). 3
- d. Analyze the importance of process (ii). 4

4. ★



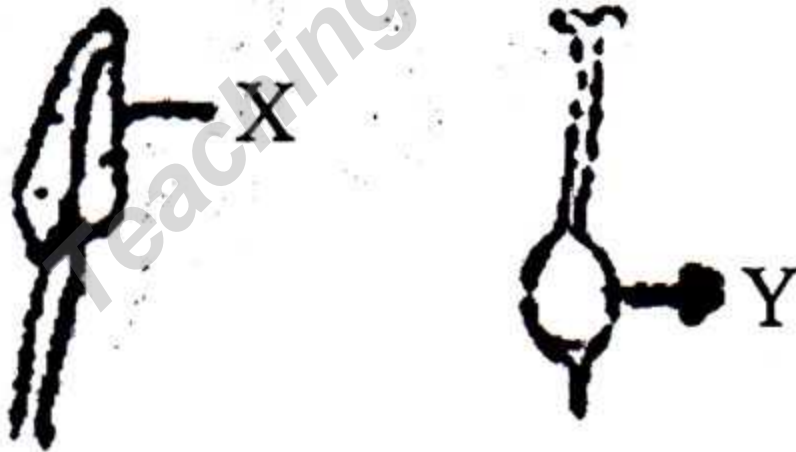
fig-X

- a. What is imbibition? 1
- b. Why transpiration is considered as a necessary evil? 2
- c. Explain the differences among the cells in fig-X. 3
- d. The cells in the fig-X play important role in our body- Analyze. 4

5. ► There are two bean seed-shaped organs in our body. There are 10 to 12 lac of structural and functional unit in each organ. The organs play important role.

- a. What is pleura? 1
- b. Write the causes of lung cancer. 2
- c. Draw a labelled diagram of structural & functional unit of the organ mentioned in the stem. 3
- d. Analyze the importance of the organ mentioned in the stem. 4

6. ►



- a. What is phytohormone? 1
- b. How reflex action occurs. 2
- c. Describe the development of a spore which is produced in 'X'. 3

d. Explain the importance of 'Y'.

4

7. ★



fig-X



fig-Y

- a. What is locus? 1
- b. Why chromosomes are considered as physical basis of heredity. 2
- c. Explain the differences of the molecules expressed in the fig-X and Fig-Y. 3
- d. Structure of Y is very complex-analyze the statement. 4
8. ► 'M' is a biotechnological process by which new characteristics are developed in living organism.
- a. What is biodiversity? 1
- b. What does it mean by antibiosis? 2
- c. Describe the process 'M'. 3
- d. Explain how this process (M) play role in developing crops.

Time — 25 minutes

Creative Multiple Choice Questions

Full marks — 25

[NB. Answer all the questions. Each question carries one mark. Block fully, with a ball point pen, the circle of the letter that stands for the correct/best answer in the "Answer Sheet" for the Multiple Choice Questions Examination.]

1. In which branch of Biology industry of medicine is discussed?

- (a) Evolution
- (b) Genetic Engineering
- (c) Pharmacy
- (d) Cytology

2.



Which kingdom of the following the organism mentioned in the stem is included?

- (a) Monera
- (b) Protista
- (c) Fungi
- (d) Animalia

3. Which one of the following has no nucleus?

- (a) Companion cell
- (b) Sieve cell
- (c) Phloem parenchyma
- (d) Muscle cell

4. ★ The parenchyma cells with air filled spaces are called—

- (a) Chlorenchyena
- (b) Collenchyanx
- (c) Aerenchyma
- (d) Sclerenchyma

5. Secretion from excretory tissue—

- i. Honey
- ii. Latex
- iii. Regin

Which one of the following is correct?

- (a) i & ii
- (b) ii & iii
- (c) i & iii
- (d) i, ii & iii

6. Work as digestive glands—

- i. Salivary glands
- ii. Liver
- iii. Pancreas

Which one is correct?

- (a) i & ii
- (b) ii & iii
- (c) i & iii
- (d) i, ii & iii

7. ★ Healing of injures by—

- i. Amitosis
- ii. Mitosis
- iii. Meiosis

Which one of the following is correct?

- (a) i
- (b) ii
- (c) iii
- (d) i, ii & iii

8. The process of photosynthesis is divided in how many phase?

- (a) 2
- (b) 3
- (c) 4
- (d) 5

9. ★ The amount of CO₂ is increased to a very high level, acidic condition in the cells of mesophyll tissue.

- (a) Decreases
- (b) increases
- (c) don't have any change
- (d) Decrease highly

10. Used as a respiratory substrate—

- i. Protein
- ii. Fat
- iii. Organic Acid

Which one of the following is correct?

- (a) i & ii
- (b) ii & iii
- (c) i & iii
- (d) i, ii & iii

11. Which temperature of the following the rate of respiration is decreased?

- (a) Above 20°C
- (b) Below 20°C
- (c) Above 30°C
- (d) Below 45°C

12. Which one of the following is micronutrient?
 (a) K
 (b) N
 (c) B
 (d) Ca
13. For which plant of the following chlorine is prime need for the growth of root & stem?
 (a) Tomato
 (b) Sugar beet
 (c) Sunflower
 (d) Bean
14. ★ At least what percentage of animal protein should be in our food chart?
 (a) 10
 (b) 15
 (c) 20
 (d) 25
15. Iron enriched food—
 i. Ground nut
 ii. Liver
 iii. Molasses
 Which one is correct?
 (a) i & ii
 (b) ii & iii
 (c) i & iii
 (d) i, ii & iii
16. Part of tooth—
 i. Crown
 ii. Root
 iii. Neck
 Which one is correct?
 (a) i & ii
 (b) ii & iii
 (c) i & iii
 (d) i, ii & iii
17. The process of absorption is accomplished with the condition of—
 i. Imbibition
 ii. Diffusion
 iii. Osmosis
 Which one is correct?
 (a) i & ii
 (b) ii & iii
 (c) i & iii
 (d) i, ii & iii
18. Where does lenticel developed?
 (a) in leaf
 (b) in root
 (c) in bark of stem
 (d) in flower
19. The wall of heart is how many layered?
 (a) 2
 (b) 3
 (c) 4
 (d) 5
20. About how much water in urine—
 (a) 60%
 (b) 70%
 (c) 80%
 (d) 90%
21. ★ Which one of the following is long day plant?
 (a) Cucumber
 (b) Lettuce
 (c) Dahlia
 (d) Sunflower
22. Which one of the following is fly pollinated flowers?
 (a) Paddy
 (b) Chinese hibiscus
 (c) Kadam
 (d) Kachu
23. Which one of the following is scavenger?
 (a) Hen
 (b) Goat
 (c) Crow
 (d) Tiger
24. Which one of the following is consumer of second line?
 (a) Snake
 (b) Crow
 (c) Crow
 (d) Fox
25. ★ Green house gas—
 i. CO₂
 ii. CH₄
 iii. N₂O
 Which one of the following is correct?
 (a) i & ii
 (b) ii & iii
 (c) i & iii
 (d) i, ii & iii

Ans.

1	(c)	2	(b)	3	(b)	4	(c)	5	(d)	6	(d)	7	(b)	8	(a)	9	(b)	10	(d)	11	(b)	12	(c)	13	(b)
14	(c)	15	(a)	16	(d)	17	(d)	18	(c)	19	(b)	20	(d)	21	(b)	22	(b)	23	(c)	24	(d)	25	(c)		