

MODEL PAPER-2
S.S.C. PUBLIC EXAMINATIONS-2021
BIOLGY
(English Medium)

Class: X

(Max.Marks: 50)

Time: 2 Hr. 45 Min

Instructions:

1. There are four sections an 33 questions in this papers.
2. Answer should be written in a given answer booklet
3. There is internal choice in Section-IV
4. Write all the questions visible and legibly.
5. 15 Minutes are given for reading the questions paper and 2.30 hours for given for answering questions.

SECTION-1

NOTE:1. Answer all the questions

2. Each question carries 1/2 mark

12 x 1/2 = 6 M

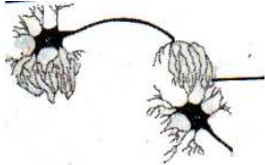
1. Kwashiorkor is due to the deficiency of
a) Proteins b) calories c) Vitamins d) Minerals
2. Expand ATP.
3. I am the smallest cell in the body. I have a long tail. I move towards the ovum and fertilize it. Who am I?
4. Pleura : Lungs :: :: _____ : Heart.
5. Identify the correct sequence
Grass → Rabbit → Lion → fox
6. Observe the diagram and identify the process
* Answer 7 and 8 questions to complete the passage
Air passes through nostrils to (7)
Where some of the tiny dirt particles are removed
..... (8) a flap like. Structure controls
The movement of food and air.
9. I am a digestive gland. But I donot help for digestion directly. Guess who I am.
10. Expland RNA.
11. Name the digestive juice without any enzyme.
12. Identify the mismatched one
 1. Latex - Acasia
 2. Resins - Pinus
 3. Gums - Jatropa



SECTION-II

NOTE: 1. Answer all the questions 8x1=8M
3. Each question carries 1 Mark

- 13. Which disease occurs in child when there is an immediate second pregnancy or repeated child births in a mother?
- 14. What happens if blood platelets are absent in blood?
- 15. Why do we use KOH solution in Mohl's half-leaf experiment?
- 16. Name the Chemical which is used to test the action of Saliva on Flour (ata).
- 17. Identify the given part in the diagram and write its use.



- 18. Write the uses of Tannins.
- 19. Give any two suggestions to create awareness to stop female foeticide.
- 20. Which part of small intestine absorb digested food?

SECTION-III

NOTE: 1. Answer all the questions 8x2=16M
2. Each question carries 2 Marks

- 21. What do you call the substances produced in the plant body which are not required for growth of the plant? Give two examples.
- 22. What is global warming? What are the causes of global warming?
- 23. Raju wanted to know about reproduction in amoeba. List out the questions he should ask his teacher about reproduction in amoeba.
- 24. Ovary secretes oestrogen. What happens if oestrogen is not secreted?
- 25. Does obese person reduce his weight by doing vigorous exercises and taking less quantity of food? What happens to him?
- 26. To avoid vitamin deficiency diseases, what type of food we have to eat?
- 27. Which type of disease is haemophilia? Why is it caused?
- 28. Name the wastes that accumulate in human body. How are they expelled out?

SECTION-IV

NOTE: 1. Answer all the questions

5x4=20M

2. Each question carries 4 Marks

29. Write in a tabular form the different parts of human brain and their functions.

(or)

Explain with the help of a flow chart, the pathway of air in human.

30. How do the different stages in urine formation? Explain what happens in those stages.

31. Write the differences between spermatozoan and ovum.

OR

Give reasons for the following.

- a. Why is photosynthesis considered the basic energy source for most of living world?
- b. Why is it better to call the dark phase of photosynthesis as a light independent phase?
- c. Why is it necessary to destarch a plant before performing any experiment on photosynthesis?
- d. Why is it not possible to demonstrate respiration in green plants kept in sunlight?

32. How does sex determination take place in human?

OR

What are the reasons for decreasing in number of organisms and biomass from producers to top carnivores in an ecosystem?

33. What questions would you pose to doctor about good food habits?

OR

If the valves in veins of the legs fail to stop the flow of blood what could be the consequences of this failure.