

MODEL PAPER-1
SUMMATIVE ASSESSMENT
BIOLOGICAL SCIENCE-PAPER-2

(English Medium)

(Max.Marks:50)

Class: X

Time: 2.45 Hrs.

Instructions:

1. This questions paper contains only ONE part.
2. 15 minutes are allotted for reading the question paper in additions to 2.30 hours for writing the answers.
3. All answers should be written in the separate answer Booklet.
4. There are four sections in the questions.
5. There is internal choice in section-IV
6. Write answers neat and legible.

SECTION-I

12 X $\frac{1}{2}$ = 6 m

- NOTE:
- 1) Answer all questions
 - 2) Each question carries $\frac{1}{2}$ Marks.

1. Which group of organisms together does not constitute a food chain.

Grass, lion, rabbit, wolf

Wolf, grass, snake, tiger

2. Stem cutting is an artificial methods of vegetative propagation. Give another example.
3. I am having tough Fibrous coat, large lumen, thin must layer and values, Who am I?
4. Expand BOD : _____
5. Identify the mismatched one
 1. Protozoa ... Flame cells
 2. Annelida Nephridia
 3. Birds ... Kidneys
6. Expand ICRISAT
7. Name the scientist with the help of this paragraph
He was born in England. He voyaged for five years. Just when he was 22 years. In the world survey ship HMs Beagle. He visited a number of places including Galapa gos Islands. He observed the flora and fauna of these places. He garthered a lot of information any evidences.
8. Arrange the following animal in the correct order (Food chain)

Zooplankton, phytoplankton, Fish, Larvae, man

9. Binary fission is a sexual method of reproduction. Give other examples of a sexual reproduction in animals.
10. The following placards are prepared in your school for conducting a rally can you name the occasion to use these?

A) Plant trees, save the earth

B) Save ozone – Save lives

C) Plant and “protect” trees – they will protect you

Answer 9 and 10 questions with the help of this paragraph.

..... (9) is a membrane bound structure containing of 3 membranes. The third layers forms stacked sac like structures called(10) it is the site for trapping Solar energy.

11. I am responsible for healthy growth of bones and teeth. My deficiency causes improper formation of bones, knock-knees. Swollen wrists and delayed dentition. Who am I?
12. Name the sphincter that helps of opening of Stomach into duodeum

SECTION-II

8x1=8 m

- NOTE: 1) Answer all questions
2) Each question carries 1 Marks.

13. Why more urine is produced during water?
14. How does Ethylene is useful to plants?
15. What will happen if there is no epiglottis in your body?
16. What is bio-magnification? Give examples for chemical substances responsible for it?
17. In your village, the ground water levels are rapidly decreasing in the recent time. What suggestions will you give to the villagers to improve ground water table?
18. What is biofuel? Name the plant is used as biofuel.
19. Draw a pyramid of energy of the give Good chain.
Banyan tree → Herbivorous birds → Carnivorous birds
20. Prepare two slogans on protecting non-renewable resources.

SECTION-III

8x2=16 m

- NOTE:
- 1) Answer all questions
 - 2) Each question carries 2 Marks.

21. Draw the pyramid of number for the following Food Chain

Diotoms → Zooplanktony → Fish → man

22. What procedure do you adopt to see pollen grains with pollen tube?
23. If you have a chance to meet a pulmonologist, what questions will you going to ask about respiratory diseases?
24. What is colostrums? What is its importances?
25. Write the procedures of the experiment to show the peristalsis with cycle tube and potato which you have conducted in your school.
26. Write a brief note on homologous and analogous organs.
27. Study the given table and answer the question.

Gas	% in inhaled air	% in exhaled air
Oxygen	21	16
Carbon dioxide	0.03	4.4
Nitrogen	78	78

- 1) Why there is no change in nitrogen percentage in exhaled and inhaled air?
 - 2) Why does exhaled air contain more carbon dioxide?
28. What precautions you have to take in the observations of internal structure of mammalian Kidney?

SECTION-IV

5x4=20 m

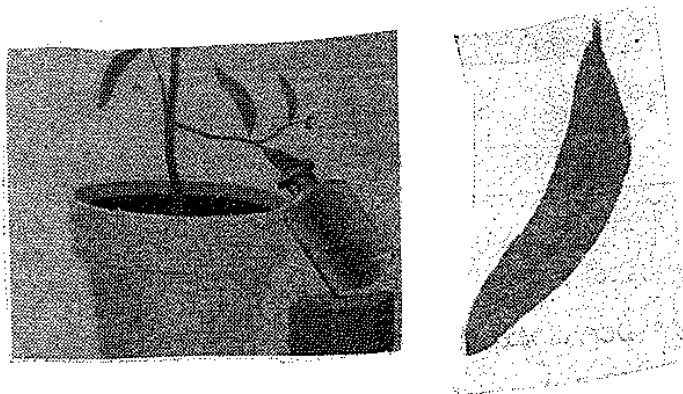
- NOTE:
- 1) Answer all questions
 - 2) Answer any one from internal choice of each questions.
 - 3) Each questions carries 4 Marks

29. Explain mono hybrid experiment with an example. Which law of inheritance can be understand? Explain
(or)
30. Write the mechanism of photosynthesis in plants
(or)

Explain the temporary and permanent methods to be adopted for Kidney failure (ESRD) persons.

31. How do you observe internal & external features of mammalian heart?

(or)



Answer the following question by observing the diagram showing the experiment.

- What is the aim of the conducting this experiment?
 - What apparatus do you use in this experiment?
 - Why do we use Kott solutions in this experiment?
 - Why did we study two leaves in this experiments?
32. Observe the following schematic diagram and answer the following questions.

- What do you call the wave like movements shown by the muscles of Oesophagus?
- What is the structure of Oesophagus?
- How does mucus help in passage of Food?
- Which part of alimentary canal are connected by the Oesophagus?

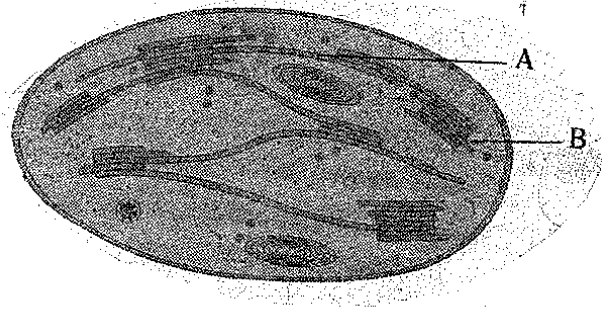
(or)

Observe the below table and answer the following questions.

Village	Type of Farmer	Income per acre on crops			
		Paddy	Cotton	Mirchi	Maize
A	Small	7500	9300	5200	5000
	Large	267000	38000	16700	12900
B	Small	7200	8750	4900	5100
	Larges	32900	42000	18400	13700

- 1) Which crop is most suitable to cultivate for small farmer in both the villages?
 - 2) If you are a large farmer, which group crop do you select to cultivate?
 - 3) What similarities you have identified in village A and Village B?
 - 4) Which is the lowest income crop?
 - 5) Is there any relationship between production of crop and income? How?
33. Draw a neat and labelled diagram of internal structure of Kidney

(or)



Observe the Figure and answer the following Question.

- 1) To which life process, the above shown picture is associated with?
- 2) Name the labeled parts A and B in the given picture
- 3) Name the reaction that takes place in A
- 4) Name the part in the given picture through which Oxygen is liberated.