



INDIAN SCHOOL DARSAIT
HALF YEARLY EXAMINATION, SEPTEMBER 2017
(SAMPLE PAPER-2)



SCIENCE

Class: VII

Max.Marks:80

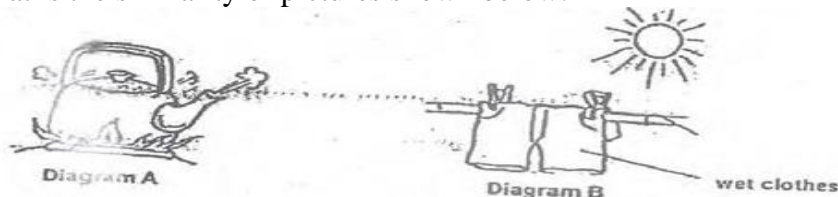
Date:

Time: 3hours

General Instructions:

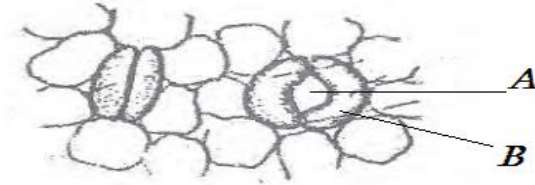
- i) All questions are compulsory.
- ii) Marks for each question are indicated against it.
- iii) Questions **1** and **2** are very short answer questions and carry **1** mark each.
- iv) Questions **3** to **11** are short answer questions and carry **2** marks each.
- v) Questions **12** to **20** are long answer questions and carry **3** marks each.
- vi) Question number 21 is a value based question of three marks**
- vii) Question number **22** to **27** are long answer questions and carry **5** marks each.

1. Which instrument is used to measure the speed of wind? 1
2. Name the stored form of carbohydrate in plants. 1
3. Gopal observed cows and buffaloes swallow their food hurriedly and then sit restfully and chew their food. Can you help him by stating the reason behind this? 2
4. (a) To keep her soup warm Rohini wrapped the container in which it was kept with a woollen cloth. Can she apply the same method to keep a glass of cold drink cool? Give reason 2
(b) What is the similarity of pictures shown below:



5. Differentiate between autotrophic nutrition and heterotrophic nutrition with examples. 2

6. Tina observed tiny pores on the surface of leaves under the microscope as shown. However she forgot the function of these pores. Identify the structure A and B and write its function 2



7. A farmer was unhappy because of his low crop yield. He discussed the problem with an agricultural scientist and realized that the soil of his field was either too acidic or too basic. What remedy would you suggest the farmer to neutralise the soil? 2

8. A man digging a pit found that he could dig with ease initially but digging became difficult as he went deeper. He could not dig beyond a depth of 5 feet. Provide a suitable scientific explanation. 2

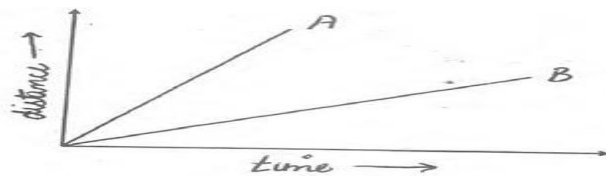
9. Name the parts of the alimentary canal where: 2

- (i) Water gets absorbed from undigested food
- (ii) Taste of food is perceived
- (iii) Digested food is absorbed
- (iv) Bile juice is produced

10. How do elephants living in the tropical rainforest adapt itself? 2

11. (a) If Ram covers a certain distance in 1 hour and Shyam covers the same distance in 2 hours, who travels at a higher speed? 2

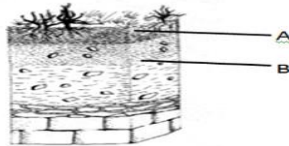
- (b) The figure shows distance-time graph for the motion of two vehicles A and B. Which one of them is moving faster and why?



12. Explain the process of photosynthesis with an equation 3

Give reasons: 3

13. (i) It is not easy to predict the weather of a place.
 (ii) A tropical rain forest has a large population of animal.
 (iii) Migration help the birds in their survival



- (i) Why is the colour of top layer dark? What is its importance?
- (ii) Which type of soil is used to make toys and why?
- (iii) Why earthworms are called friends of farmers?
- (iv) What type of soil is required for growing Paddy?

23. (i) Explain with a neat diagram the digestion taking place in amoeba 5
 (ii) Can you cite one similarity and one difference between the nutrition in amoeba and human beings.

24. (i) Can we use a clinical thermometer to measure the temperature of boiling water? Why? 5
 (ii) It is advised to paint the outer walls of the houses present in hot regions using white or light colours. Justify.
 (iii) Aayushi puts a stainless steel spoon in a glass of hot milk but Advika does not do so. The milk of which glass will cool faster? Give reasons to your answer
 (iv) A metal cap on a glass bottle can be loosened or opened by pouring hot water over the metal cap. Why is it so?

25. (i) Discuss acid rain and its harmful effects 5
 (ii) Complete the following table

Sl No	Base/Salt	Common name
1	Sodium Hydrogen Carbonate	(a)
2	(b)	Slaked lime
3	(c)	Milk of magnesia
4	Ammonium hydroxide	(d)

26. Write any five adaptations of polar bear to survive in polar region 5
OR
 Write the features of lion tailed macaque which enable it to live in tropical rain forests.

27. (i) Plot a distance-time graph using the following data 5

Time(s)	0	2	4	6	8
Distance (m)	0	4	8	12	16

- (ii) Is the object in uniform or non-uniform motion?

- (iii) What is the significance of a distance- time graph?
- (iv) The distance between two stations is 240 km. a train takes 4 hours to cover this distance. Calculate the speed of the train.