



**INDIAN SCHOOL DARSAIT
HALF YEARLY EXAMINATION- 2018
SAMPLE PAPER
SCIENCE**

CLASS: VI

Max. Marks: 80

DATE:4.9.2018

Time: 3 hours

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 **21** are long answer questions and carry **3** marks each.
- vii) Question number **22** to **27** are long answer questions and carry **5** marks each

- 1 Name two ingredients in our food that are not obtained from plant and animals. 1
- 2 Mention two components of food that do not provide nutrients. 1
- 3 Identify the method of separation used to separate: 2
 - i) Husk from rice
 - ii) Grains from paddy stalks

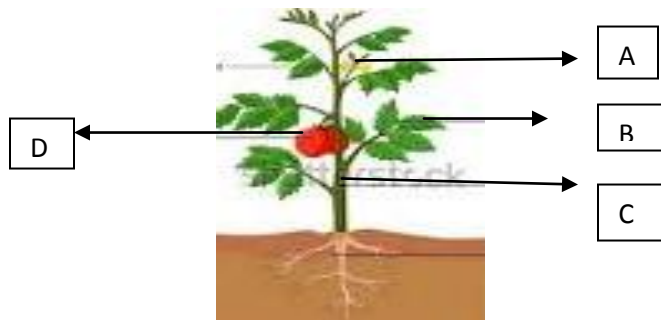
OR

Choose the correct method of separation that can be used in the following situations
(decantation, sieving, filtration, handpicking, winnowing, evaporation)

- i) Oil mixed with water
 - ii). Rice flour mixed with kidney beans
- 4 How carnivores differ from omnivores? Give one example each. 2
 - 5 Identify the plant part that is eaten as food in the following figures 2



- 6 A garbage collector separate items mentioned below in the garbage into blue and green containers respectively. 2
 Items: Vegetable peels, Egg shells, screws and nuts,plastics
 Which item was transferred to which bin and why?
- 7 Provide the suitable term that expresses the meaning of each of the following statements. 2
 i)Greeting cards made from newspaper
 ii) An area where a lot of garbage is collected, spread out and covered with soil.
- 8 a)Raghu puts a food sample on a piece of paper and crushes it. The paper becomes translucent. In which nutrient is the food rich in? 2
 b) Why is it suggested not to wash the vegetables and fruits after cutting or peeling them?
- 9 a) While using iodine in the laboratory, some drops of iodine fell on Paheli’s socks and some fell on her teacher’s saree.The drops of Iodine on the saree turns blue-black while their colour did not change on the socks. What can be the possible reason? 2
 b) Read the items of food listed below. Classify them into carbohydrate rich and protein rich foods.
 Sweet potato,Moong dal
- 10 a) Krishna wanted to test for the presence of protein in different food items. He had four chemicals. Which of the following chemicals should he use for the test? 2
 i) Iodine ii)Copper sulphate iii)Caustic soda iv) an acid
- 11 Differentiate between Expansion and contraction 2
- 12 a) Identify and Label the different edible parts of a plant. 3

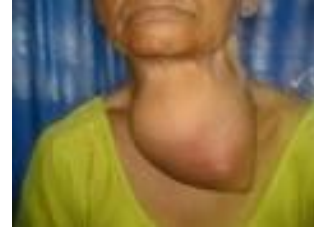


- b) Give an example of a plant whose more than one part is eaten as food.

- 13 a) Name the following 3
i) The nutrients which mainly give energy to our body.
ii) The nutrient that are needed for the growth and maintenance of our body.
iii) A mineral that is required for keeping our bones healthy.

OR

b) Given below are pictures of people suffering from some diseases. Identify the diseases and write its name below the picture.



i) _____ ii) _____ iii) _____

- 14 a) Differentiate between soft and hard materials with suitable examples. 3
b) List some properties of materials. (any four).

- 15 Given below are steps in vermicomposting which are not in correct order. Rearrange the steps in correct sequence. 3
1. Dig a pit in a suitable place in your garden
2. Cover with a gunny bag or grass
3. Add vegetable peels and fruits waste in the pit
4. Sprinkle water to keep it moist.
5. Place redworms in the pit
6. Spread sand on the floor of the pit.

- 16 a) Distinguish between biodegradable and non biodegradable waste 3
b) Name any two important methods of garbage disposal.

OR

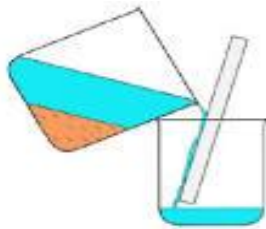
- a) Why vermicompost is aerated before vermicomposting?
b) Ragpickers always suffer from disease. Why?
17 a) Give reason 3
i) Some materials often appear dull. Why?
ii) Some objects float in water and some sink in water.
b) Name any two materials that have lustre.

- 18 a) Differentiate between transparent and translucent materials? Explain with examples 3
b) Name two gases that dissolve in water.

- 19 a) Draw a well labelled diagram for the set up used for filtration 3
 OR
 b) Given below are the pictures of the methods of separation of mixtures. Identify them.



i) _____



ii) _____



iii) _____

- 20 a) Read the story titled **WISE FARMER** and tick the correct option to complete the story. 3

A farmer was happy to see his healthy wheat crop ready for harvest. He harvested the crops and left it under the sun to dry the stalks. To separate the seeds from the bundles of the stalk he i)(handpicked /threshed) them. After gathering the seed grains he wanted to separate the stones and husk from it.His wife ii) (winnowed /threshed) them to separate the husk and later iii)(sieved/handpicked) to remove stones from it.She ground the wheat grains and iv)(sieved/filtered) the flour. The wise farmer and his wife got a good price for the flour.

b) While preparing chapattis, paheli found that flour to be used was mixed with wheat grains. Which out of the following is the most suitable method to separate the grains from the flour?

- 21 Diseases like obesity are random in modern life style. 3
 a) Can you suggest any two ways to overcome this disease
 b) Our grandfather advice that new born babies should be exposed to sunlight.
 Is there any scientific reason for it?

- 22 a) Yarn, fabric and fibres are related to each other. Show the relationship by following the blanks 5
 in the following sentence.
 Fabric of cotton saree is made by weaving cotton _____ which in turn is made by spinning thin cotton_____.
 b) How is jute harvested?
 c)From which part of the plant cotton and jute are obtained .

- 23 a)Distinguish between knitting and weaving 5
 b) How will you differentiate natural fibres from synthetic fibres?
 c)Classify the following fibres as synthetic or natural
 Nylon,wool,cotton,poyster

24 a) A bag of cement lying in the open gets wet due to rain during the night. The next day the sun shines brightly. Do you think the changes, which have occurred in the cement, could be reversed? 5

b) The following figure given below shows a lighted candle. Identify the changes taking place in it. Mention whether the following changes are reversible or not.



25 a) How would you separate sand, salt and water from its mixture. Explain 5
Or

- b) i) What is the principle used in the separation of mixtures?
- ii) Why do doctors often recommend us to shake the bottle containing liquid medicine before use?
- iii) Why does sugar dissolve easily in milk at room temperature in summer compared to winter?
- iv) Name the method used to separate tea leaves from tea?

26 a) Moon is a non-luminous object. How does it shine at night? 5

- b) Correct the following statements.
 - i) The colour of the shadow of an object does not depend on its colour.
 - ii) Transparent objects allow light to pass through them partially.
- c) Three identical towels of red, blue and green colour are hanging on a clothes line in the sun. What would be the colour of the shadows of these towels?
- d) Can you think of creating a shape that would give a circular shadow if held in one way and a rectangular shadow if held in another way?

27 a) Differentiate between the image formed in a pin hole camera and the shadow of an object. 5

- b) While playing hide and seek why do you hide behind a wall and not a glass door?
What happens to the size of the shadow when distance between object and the source is increased?

OR

- a) Classify the objects as opaque, transparent or translucent and luminous or non-luminous.
Fog, a sheet of card board, Sun, moon, a sheet of plane glass
- b) Observe the image formation in the picture given below and state the principle behind pin hole camera.



- c) List the conditions needed for the shadow to be formed.

