

Roll No.

Code : S8SC702

KENDRIYA VIDYALAYA SANGATHAN, PATNA REGION
SESSION ENDING EXAMINATION- 2018-19

CLASS - VII

Sl. No. _____

SCIENCE

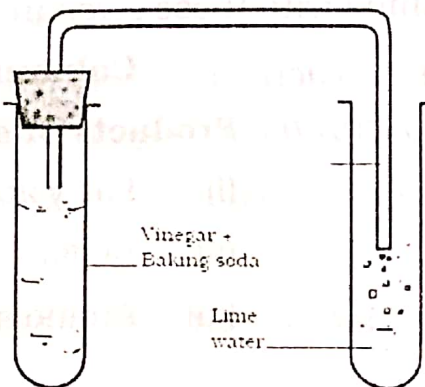
Time - 2½ Hrs.]

[Maximum Marks - 80

General Instructions :-

- (i) All questions are compulsory.
- (ii) There is internal choice in one question of two marks, three questions of three marks each and two questions of five marks each.
- (iii) Question numbers 1 and 2 are one mark questions. They are to be answered in one word or in one sentence.
- (iv) Question number 3 to 11 are very short answer type questions. Each question carries 2 marks.
- (v) Question number 12 to 21 are also short answer type questions. Each question carries 3 marks.
- (vi) Question number 22 to 27 are long answer type questions. Each question carries 5 marks.

1. Beating silver into silver foil is which type of change, physical or chemical ?
2. Which day is celebrated as 'World Water Day' ?
3. Why do cows, buffaloes and other grass eating animals chew continuously even when they are not eating ?
4. Observe the figure and answer the following questions.



Turn Over

- (a) Name the gas released.
- (b) What is the effect of this gas on lime water ?
- (c) Write the chemical equation of the reaction.

OR

An iron nail is dropped in copper sulphate solution. Based on your observation, answer the following questions :-

- (a) What is the colour of copper sulphate solution ?
 - (b) What change do you observe after half an hour ?
 - (c) What is the colour of iron nail after the reaction ?
 - (d) Write the equation of the reaction.
5. Write one function each of WBC and platelets.
 6. A simple pendulum takes 40 seconds to complete 20 oscillations. Calculate the time period of pendulum.
 7. Write any two advantages of dispersal of seeds.
 8. Draw a closed electric circuit using symbols of electric components.
 9. State two differences between concave and convex lens.
 10. State whether the following statements are true or false :-
 - (a) Water shortage is a problem faced only by people living in rural areas.
 - (b) The freshwater stored in the ground is much more than present in the rivers and lakes of the world.
 - (c) About 71% of the earth is covered with water.
 - (d) Rain is the ultimate source of water.
 11. Why should oils and fats be not released in the drain ?
 12. Match the items of column I with those given in column II

Column I

Food components

- (a) carbohydrates
- (b) Proteins
- (c) Fats

Column II

Products of digestion

- (i) Fatty acids and glycerol
- (ii) Sugars
- (iii) Amino acids

13. Explain how painting of an iron gate prevents it from rusting. State any two methods other than painting which are used to prevent rusting on iron articles.
14. Fill in the blanks :-
- (a) The fluid part of the blood is _____.
 - (b) The veins carry _____ blood.
 - (c) Water reaches great heights in the trees because of suction pull caused by _____.
15. Explain the process to obtain new potato plants with the help of a potato.

OR

Draw a diagram to show reproduction in yeast. Which type of reproduction takes place in yeast ?

16. List any three important reasons for depletion of water table.
17. Draw the distance- time graph for the motion in the following cases:
- (i) a car moving with constant speed.
 - (ii) a car parked on a side road.
18. What are decomposers ? Name any two of them. What do they do in the forest ?

OR

Explain how animals dwelling in the forest help it grow and regenerate ?

19. Name the kind of mirror used
- (i) by the dentists to see enlarged image of teeth,
 - (ii) as rear view mirrors in scooters or bikes,
 - (iii) as headlights of cars.
20. What is sludge ? Explain the function of bar screen in wastewater treatment plant. Name the gas obtained in a WWTP which can be used as fuel.
21. Classify the following motions as motion along a straight line, circular or oscillatory motion.
- (i) Motion of soldiers in a march past.

Turn Over

- (ii) Motion of a pendulum of a clock.
- (iii) Motion of a potter's wheel.
2. (a) Draw a diagram of arrangement of teeth in human being and label various types of teeth.
- (b) Which teeth do we use for biting and cutting and which one for piercing and tearing ?
23. (a) Define heating effect of electric current.
- (b) Write its two uses.
- (c) What are electric fuses? How are they useful?

OR

- (a) Define magnetic effect of electric current.
- (b) Who discovered the magnetic effect of electric current ?
- (c) What are electromagnets ? Write its two uses.
24. Draw a neat and labelled diagram of human excretory system.
25. (a) What do you mean by reflection of light ?
- (b) State four characteristics of image formed by a plane mirror.
- (c) Write two differences between real and virtual image.
- OR**
- (a) What are two types of spherical mirror ? Draw them.
- (b) Which lens is used as magnifying glass ?
- (c) What happens when a narrow beam of sunlight falls on a prism? Explain with the help of diagram.
26. Define pollination. Draw neat and labelled diagram to show different types of pollination.
27. (a) What is canopy ?
- (b) Why should we worry about the conditions and issues related to forests far away from us.
