



INDIAN SCHOOL SOHAR
TERM I EXAMINATION-(2019 -20)
SUBJECT: SCIENCE

CLASS: VII

Max. Marks: 80

DATE: 29/09/2019

Duration: 3Hrs

- i. The Question paper consists of **36** questions comprising three Sections- **A, B & C**.
- ii. **All** questions are compulsory.
- iii. Internal choice is given in Sections- **B and C**.
- iv. Question numbers **1 to 20** in Section-**A** are of **one** mark each.
(Q 1 to 10-MCQ, 11 to 19- very short answer type to be answered in one word or one sentence and Q.20 - assertion & reasoning)
- v. Question numbers **21 to 30** in Section-**B** are **three** marks each. These are to be answered in about 50 words.
- vi. Question numbers **31 to 36** in Section-**C** are **five** marks each. These are to be answered in about 70 words.
- vii. There is no overall choice. However an internal choice is provided in question number **27, 28, 29 & 30** of **3** marks and question number **34, 35 & 36** of **5** marks. Attempt only one of the choices in such questions.

SECTION-A

1. Which of the following is the chemical name of slaked lime:

A) sodium hydroxide	B) calcium hydroxide	
C) sodium bicarbonate	D) calcium oxide	(1)
2. If an iron ball is heated at 40°C and dropped in a mug that contains water at 40°, what will be the flow of heat:

A) Flow from the iron ball to water.	B) There will be no flow of heat.	
C) Flow from water to the iron ball.	D) Both the temperatures increase.	(1)
3. Name the microorganism which can convert atmospheric nitrogen into a usable form.

A) Lichens	B) Silkworm	
C) Bread mold	D) Rhizobium	(1)
4. The process that involves depositing a layer of zinc on iron to prevent it from rusting is:

A) Galvanisation	B) Corrosion	
C) Solidification	D) Crystallisation	(1)
5. In which of the following form do the plants prepare their food:

A) Protein	B) Vitamin	
C) Fats	D) Starch	(1)
6. Sticky pads on feet to climb on trees is the adaptive feature of:

A) Monkey	B) silkworm	
C) Red-eyed frog	D) toucan	(1)
7. Mohair fibre is obtained from which of the following animals:

A) Kashmiri goat	B) Llama	
C) Angora goat	D) Alpaca	(1)
8. The soil particle that occurs as a deposit in river beds is known as:

A) Humus	B) Silt	
C) Clay	D) Sand	(1)
9. The weather pattern that prevails over a long period of time in an area is called _____.

A) climate	B) weather	
C) season	D) atmosphere	(1)
10. The process of taking out threads from the cocoons for use as silk is referred as:

A) Sericulture	B) Sorting	
C) Rearing	D) Reeling	(1)

11. Shearing does not hurt the sheep. Justify this statement. (1)
12. Name the bacterium that causes sorter's disease. (1)
13. Why do Penguins huddle together during winter season? (1)
14. How is cellulose digested in ruminants? (1)
15. What is weathering? (1)
16. Write a word equation to represent the process of rusting in iron. (1)
17. Name the acid present in: (a) spinach (b) vinegar (1)
18. How is pressure difference created in nature? (1)
19. Why do some leaves appear red in colour? (1)
20. In the following question, a statement of assertion (A) & a corresponding statement of reason (R) are given.

Assertion(A): The range of clinical thermometer is 35°C to 42°C.

Reason(R): Mercury is used in clinical thermometers.

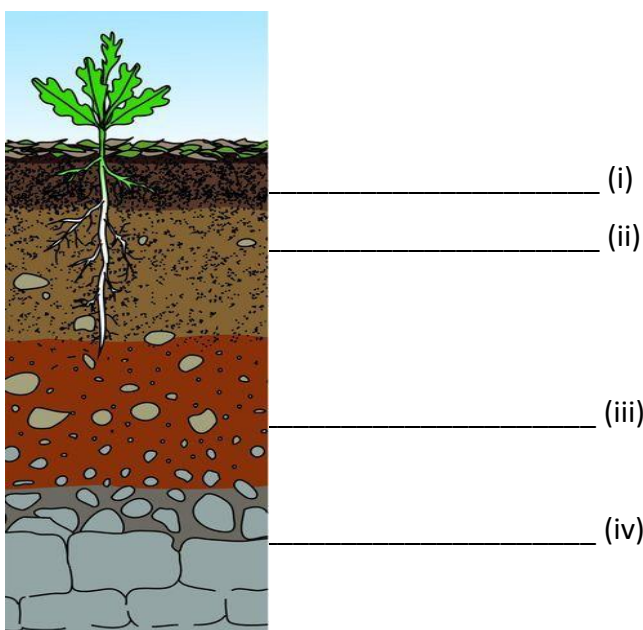
Choose the most appropriate option-

- a) Both A & R are true but R is not the correct explanation of A.
- b) Both A & R are true and R is the correct explanation of A.
- c) A is true but R is false.
- d) A is false but R is true.
- e) Both A & R are false.

(1)

SECTION-B

21. a) List any two differences between sea breeze and land breeze (3)
b) Name the mode in which heat travels in air. (3)
22. a) Why does lion-tailed macaque rarely come down on the ground? (3)
b) How can the polar bears live underwater for long time?
c) Mention the function of tusks in elephants.
23. a) What are stomata? (3)
b) List the four factors that are essential for photosynthesis to take place.
24. a) State the two types of fibres that form the fleece of sheep. (3)
b) What is selective breeding?
25. a) Briefly describe two ways to prevent rusting of iron. (3)
b) Why do we use cooking utensils made of steel and not iron?
26. a) What do you mean by soil profile? (3)
b) Label the diagram given below:

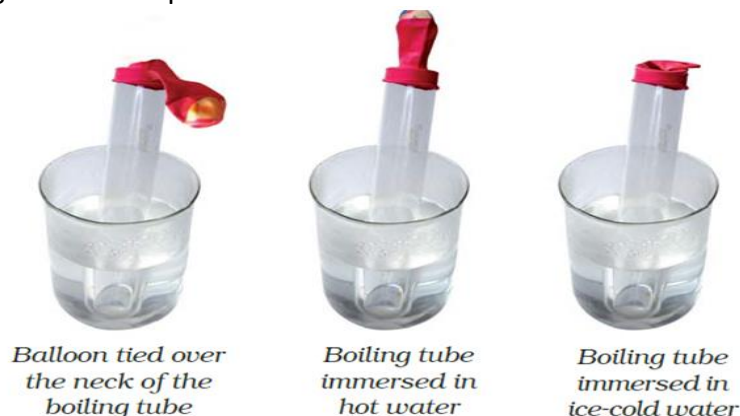


27. What would happen if we do not have a tongue? (Any 3 points) (3)

OR

- a) Explain why rusting of iron is faster in coastal areas than in deserts.
- b) Define the term crystallisation.

28. Observe the changes in the shape of the balloon. Think and answer the following questions: (3)



- a) What makes the balloon inflated when the boiling tube is placed in hot water?
- b) Why is the same balloon deflated when the tube is kept in cold water?
- c) What do we conclude from this experiment?

OR

Write three differences between physical change and chemical change.

29. If you dissolve the white ash of burnt magnesium in water, what will you get? Write a word equation to represent the reaction and mention the nature of the new substance formed during this reaction. (3)

OR

- a) Define temperature.
- b) What is the use of kink in a clinical thermometer?
- c) Name the thermometer used to measure daily temperature to predict weather report.

30. a) Which of the following state of India is unlikely to be affected by a cyclone: Rajasthan or Goa. Give reason to support your answer. (3)

b) Suggest a precaution you will take to combat the situation, if you are staying in a cyclone hit area. (3)

OR

- a) What is humus?
- b) A man digging a pit found that he could dig with ease initially but digging became difficult as he went deeper. Provide a suitable scientific explanation.

SECTION-C

31. a) What is neutralisation reaction? (5)

b) Write a word equation representing neutralisation reaction.

c) Explain why:

- i) We should not drink orange juice, if we are suffering from acidity.
- ii) Curry stain on white cloth turns red when soap is rubbed on it.
- iii) Calamine solution is applied on the skin when an ant bites.

32. a) List any two elements of weather. (5)

b) Why do tropical regions have hot and wet climate?

c) How do animals survive in different climatic conditions? Give one example to support your answer.

d) When does the minimum temperature of the day occur?

33. a) Identify the stages in the life cycle of the silk moth shown in the diagrams given below. (5)



A) _____

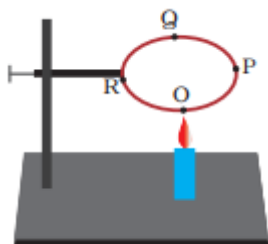
B) _____

C) _____

D) _____

b) Name the most common silk moth. Mention any two characteristics of silk fibres obtained from it.

34. A circular metal loop is heated at point O as shown in figure given below. (5)



- In which direction would heat flow in the loop if points O, P, Q and R are equidistant from each other?
- Which pin will fall first if the pins are fixed at points P and Q with the help of wax?
- What is this process of heat transfer called as? Define this process.
- If we stop heating the loop, it will cool down after sometime. Mention the process responsible for it.

OR

- State two situations which give rise to generation of wind currents.
- A cloth-line is hung in a balcony facing the sea. In which direction will the clothes be blown in the night and why?
- Name the instrument used to measure the wind speed.

35. a) Why do plants and animals need nutrition? State three reasons. (5)

b) Give two differences between an autotroph and a heterotroph.

OR

Briefly describe the process of digestion in ruminants.

36. A student took a solution of copper sulphate in a beaker. He put a clean iron nail into it and left it about an hour.

- What changes do you expect?
- Write a word equation for the chemical change, if any.
- Mention any two changes that accompany the formation of a new substance when a chemical change takes place. (5)

OR

a) Complete the table given below with words: maximum, least and medium.

Serial number	Characteristics	Sandy soil	Clayey soil	Loamy soil
A	Particle size	1. _____	2. _____	3. _____
B	Absorption of water	4. _____	5. _____	6. _____

b) To percolate 600 mL of water through 950 gm of soil, the time taken is 8 minutes. Mention the formula and calculate the rate of percolation.
