



**INDIAN SCHOOL MUSCAT
FIRST TERM EXAMINATION (2017-2018)**

SCIENCE

Name: _____ **Roll No:** _____ **Time:** 2 ½ hours

Class: VII **Sec:** _____ **Date:** 10 /09 /2017 **Max. Marks:** 80

**SECTION 1(MARKS-25)
(OBJECTIVE TYPE)**

Q I. Fill in the blanks. (6 x 1 mark)

- a. _____ are the food factories of plants .
- b. The _____ in a clinical thermometer prevents mercury level from falling on its own.
- c. Carbon dioxide turns _____ milky.
- d. Breathing involves movement of _____ and the rib cage.
- e. The temperature, humidity and other factors are called the _____ of weather.
- f. _____ is celebrated on 22 March.

Q II. State TRUE or FALSE (6 x 1 mark)

- a. Leaves other than green do not have chlorophyll.
- b. Ground water is the source of well water.
- c. The process of depositing a layer of copper on iron is called galvanisation.
- d. Penguins huddle together to keep themselves cold.
- e. When an electric current flows through a wire, it behaves like a magnet.
- f. Aeration is done to allow growth of aerobic bacteria during treatment of waste water.

Q III. Choose the correct answer (6x 1 mark)

- a. Fishes breathe through
A) lungs B) skin C) spiracles D)gills
- b. Which among the following does not belong to the polar region

A) Canada B) India C) Greenland D) Siberia

c. The electric appliance where the heating effect is not used is

A) Iron B) Fan C) Electric kettle D) Hotplate

d. Which among the following is a parasite

A) cuscuta B) Yeast C) mushroom D) pitcher plant

e. The process by which water seeps underground is called

A) infiltration B) filtration C) irrigation D) none of the above

f. Which among the following should not be thrown in drains to minimize clogging

A) Plastic bags B) Paints C) Fats D) All of the above

Q.IV. Give one word

(7x 1 mark)

a. The number of times a person breathes in a minute.

b. The average weather pattern taken over a long time.

c. A current carrying coil of an insulated wire wrapped around a piece of iron.

d. A technique used by farmers to use water economically by delivering water directly to the base of the plant.

e. Instrument used to measure the rainfall.

f. Combination of two or more cells.

g. The upper limit of the layer of soil containing ground water.

SECTION-II (MARKS-55)

NOTE: Questions **Q5** to **Q19** carry **one** mark each.
Questions **Q20** to **Q29** carry **two** marks each.
Questions **Q30** to **Q34** carry **three** marks each.
Question **Q35** carries **five** marks.

5. Name the two organisms that live together and share shelter and nutrients in lichens.
6. The roof tops made of asbestos is painted white. Why?
7. Name the conditions necessary for rusting.
8. Why does a potted plant die when overwatered?
9. Give two characteristics of a typical desert climate.
10. What is the special property of wires that are used for making electric fuses?
11. What is rainwater harvesting?
12. How can sludge be decomposed to get biogas?
13. Why is fuse included in electric circuits?
14. Many tropical animals can camouflage themselves. How does this help them?
15. What is sewage?
16. Give two reasons for over exploitation of underground water.
17. Write two factors of conducting wires on which amount of heat produced depends.
18. Mention one onsite sewage disposal systems suitable for rural areas.
19. What are aquifers?
20. Given below are some of the characteristics of animals:

Sticky pads on feet, Layer of fat under skin, Long tails, Wide and large paws

For each characteristic indicate whether it is adaptation for tropical rainforests or Polar Regions.
21. What is the temperature range of a clinical thermometer? Why is it necessary to shake it before reading the body temperature?
22. Which is the standard test for carbon dioxide gas? Give the word equation.
23. Differentiate between a physical and chemical change. Give an example for each.

24. Identify the breathing organ in the following organisms:



a)



b)



c)



d)

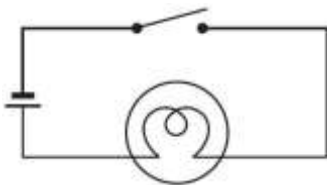
25. a) Mention the use of bar screens in a waste water treatment plant.

b) Why is aeration done in the treatment of waste water?

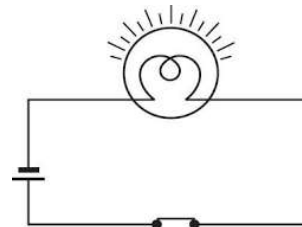
26. Look at the examples given below and classify them as conductors and insulators of heat.

Silver, Air, Wood, Mercury

27. Given below are two circuits **a** and **b**. Explain why the bulb glows only in circuit b.



a)



b)

28. Differentiate between autotrophs and heterotrophs. Give an example each.

29. Name four contaminants present in sewage

30. a) What is meant by saprotrophic nutrition?

b) Explain how saprotrophs absorb nutrition?

c) Give two examples of fungi.

31. Give reason:

a) A stainless steel spoon becomes hot when left in boiling water.

b) The sun's rays reach the earth even though there is no medium in between them.

c) Our hand feels hot when placed above a candle flame than when placed at the side of the flame.

32. Explain how the following features help these animals to adapt to their surroundings:

a) Large ears of elephants.

b) Layer of fat under the skin of polar bear.

c) Long, large beak of Toucan.

33. a) What is an electromagnet?

b) Give two uses of electromagnets.

34. A clean iron nail is left in a solution of copper sulphate for an hour.

a) What changes will you observe?

b) Write the word equation.

35. a) Differentiate between aerobic and anaerobic respiration.(1 point)

b) Complete the following word equations.

Glucose $\xrightarrow{\text{(without oxygen)}}$ _____ + carbon dioxide + _____

Glucose $\xrightarrow{\text{(with oxygen)}}$ carbon dioxide + _____ + _____

c) Why do you get muscle cramps after heavy exercise?

d) How can you get relief from cramps?
