



ST. MARGARET SR. SEC. SCHOOL
MID TERM EXAMINATION 2023-24SCIENCE
CLASS VII
SAMPLE PAPER

Time: 2 Hr 30 Min

M.M: 60

GENERAL INSTRUCTIONS:

All questions are compulsory.
Section A carries 1 mark each.
Section B carries 2 marks each.
Section C carries 3 marks each.
Section D carries 5 marks.

SECTION -A

Select the correct option (Q1-16) (MCQ)

Q1. Animals are not:

- a. Autotrophs
- b. Holozoic
- c. Parasites
- d. Saprotrophs

Q2. The digestive food is absorbed in:

- a. Large intestine
- b. Liver
- c. Stomach
- d. Small intestine

Q3. Ruminants can:

- a. Digest the cellulose
- b. Not digest the cellulose
- c. Sometimes digest and sometimes cannot
- d. All of these

Q4. Name the device which is used to measure the degree of coldness or hotness of an object:

- a. Manometer
- b. thermometer
- c. Barometer
- d. Voltmeter

Q5. The heat reaches to us from the sun in the form of:

- a. convection
- b. Radiation
- c. Conduction
- d. All of these

Q6. Heat always flows:

- a. from hotter body to colder body
- b. from colder body to hotter body
- c. in both the directions
- d. Never flows from one body to another

Q7. The end product of aerobic respiration are:

- a. CO₂, water and energy
- b. lactic acid
- c. Alcohol, Co₂ and energy
- d. None of these

Q8. Human beings can be categorized as:

- a. Autotrophs
- b. Parasite
- c. Saptotrophs
- d. Heterotrophs

Q9. Lime water turns:

- a. Red litmus into blue
- b. No change
- c. Blue litmus into red
- d. None of these

Q10. Sting of an ant contains:

- a. Vinegar
- b. Formic acid
- c. Common Salt
- d. Milk of magnesia

Q11. Common salt is

- a. Acidic
- b. Neutral
- c. Basic
- d. None of these

Q12. The cellular aerobic respiration takes place in:

- a. Mitochondria
- b. Chloroplast
- c. Nucleus
- d. Cytoplasm

Q13. Respiratory organs of fish

- a. Gills
- b. Fins
- c. Lungs
- d. Ribs

Q14. The basic unit of speed is

- a. Km/Min b. m/min**
c. m/s d. km/h

Q15. Time period of simple pendulum depends upon

- a. weight of the bob b. both**
c. length of pendulum d. none of these

Q16. Which of the following is an animal product

- a. Humus c. Gum**
b. Clay d. Honey

Q17. Read the following passage and answer the following questions.

The reaction between acid and base is known as neutralization reaction. In this reaction salt and water are produced with evolution of heat.

Q. i) Salt is a product formed as a result of neutralization reaction. Name the salt formed by reaction of sodium hydroxide and hydrochloric acid.

- a. sodium carbonate b. sodium bicarbonate c. sodium chloride d. sodium sulphate**

Q. ii) a neutralization reaction is

- a. an exothermic reaction b. an endothermic reaction**
c. accompanied by absorption of heat d. None of these is correct

Q. iii) When you add dilute sulphuric acid to a vessel containing water

- a. the temperature of contents of vessel increases**
b. vessel becomes hot
c. an exothermic reaction occurs
d. all the above are correct

Q. iv) Give some examples of neutralization reaction.

Q18. For question numbers 1 to 4 two statements are given- one labelled Assertion (A) and the other labelled Reason (R). Select the correct answer to these questions from the codes (a), (b), (c) & (d).

(a) Both (A) and (R) are true and (R) is the correct explanation of the assertion.

(b) Both (A) and (R) are true and (R) is not the correct explanation of the assertion.

(c) (A) is true but (R) is false.

(d) (A) is false but (R) is true.

1. Assertion (A): A bee bites and it injects the acidic liquid into skin

Reason(R): a bee sting have formic acid

2. Assertion (A): our mouth has the salivary glands which secrete saliva

Reason(R): the saliva does not break down starch into sugar

3. Assertion (A): sea breeze refers to the movement of cold air from sea towards sea during time.

Reason(R): land breeze refers to the movement of cold air from land towards sea during night time.

4. Assertion (A): temperature is a measure of degree of hotness of our body

Reason(R): we use a clinical thermometer to measure the degree of hotness of our body

Q19. Write the other name of food pipe.

Q20. What is cellulose?

Q21. What are nutrients?

Q22. Write chemical nature of soap.

Q23. What is heat?

Q24. What is inhalation?

Q25. Write harmful effects of smoking.

Q26. Give an example of periodic motion.

Q27. What is a bob?

Q28. What is the importance of humus to the soil?

Q29. What is the percentage of forest cover in India?

Q30. Write the name of largest gland in our body?

SECTION - B

Q31. What is meant by the understoreys?

Q32. State any two difference between Aerobic and Anaerobic respiration.

Q33. What are indicators? Give one example.

Q34. What do you mean by salivary digestion?

Q35. The odometer of a car reads 57321.0 km when the clock shows the time 08.30 AM. What is the distance moved by the car, if at 08.50 AM the odometer reading has changed to 57336.0 km? Calculate the speed of the car in km/min during this time. Express the speed in km/h also.

SECTION - C

Q36. A. Define speed.

B. Show the shape of the distance-time graph for the motion in the following cases:

(i) A truck moving with the speed which is not constant.

(ii) A truck parked on a side road.

1+1+1

Q37. Forest are a dynamic living entity. Explain. Name any two reasons for disappearance of forest.

Q38. Draw a well labelled diagram of Stomata.

1+2

SECTION - D

Q39. A. Explain two steps of breathing.

B. Differentiate between acids and bases with examples. (Any three)

2+3