

All Saints Public School
Annual Examination 2024 – 2025

Class 8

Max marks : 80

SCIENCE

Section A

I. Choose the correct option and write (1 mark)

1. The maximum displacement of a body from its mean position is called
(a) amplitude (b) oscillation (c) periodic motion (d) frequency
2. The power of an earthquake is expressed on a scale called
(a) seismic scale (b) iron scale
(c) richter scale (d) large scale
3. Visually impaired people can read and write using
(a) electronic writer (b) digital pens
(c) hearing aids (d) braille system
4. Vibrations in a body produce
(a) force (b) pressure
(c) sound (d) density
5. In an aneroid barometer, the liquid used is
(a) water (b) mercury
(c) alcohol (d) density
6. Which of the following is a chemical reaction that produces heat when a substance reacts with oxygen?
a.)Oxidation b) Combustion c) Reduction d) Hydrolysis
7. Ignition temperature is the _____ temperature at which the substance catches fire.
a.)Highest b.)Lowest c.)Maximum d) Room
8. Which of the following is not an inflammable substance?
a.)Alcohol b.)Wood c.)Ethanol d) Liquefied Petroleum Gas
9. Which one of the following solutions will not conduct electricity?
a.)Lemon juice b.)Vinegar c.)tap water (d) vegetable oil
10. Which of the following metals is used in electroplating to make objects appear shining?
a.)Iron b.)Copper c.)chromium (d) aluminium
11. Species found exclusively in a particular area are called _____ species.
(a)Endangered (b) Endemic
(c)Migrating (d)extinct
12. Cutting of trees on large scale is called
(a)Deforestation (b)Reforestation
©Afforestation (d) None of these
13. The male hormone is
(a)Estragon (b)Progesterone
(c)Testosterone (d)All of these
14. The reproductive phase of a woman lies between her _____ and menopause.
(a)menstrual cycle (b)menstruation
(c)menarche (d)ovulation
15. Which of the following is not a part of the male reproductive system?
(a)Vas deferens (b)Ovary (c)Testes (d)Penis

Assertion Reason questions

- (a) Assertion and Reason both are correct statements and reason is the correct explanation for assertion
- (b) Assertion and reason both are correct statements but reason is not the correct explanation for assertion.

- (c) Assertion is the correct statement but the reason is the wrong statement .
 (d) Assertion is the wrong statement but the reason is the correct statement .
16. Assertion : A ball rolling along the ground gradually slows down and finally comes to rest.
 Reason: This happens due to force of friction between the ball and the ground.
17. Assertion : Ignition temperature is the minimum temperature at which a substance catches fire.
 Reason : All substances catch fire at same temperature.
18. Assertion : Ignition temperature is the minimum temperature at which a substance catches fire.
 Reason : All substances catch fire at same temperature.
19. Assertion: Father is responsible for the determining the sex of the child.
 Reason: Sperms have either 22+X or 22+Y chromosomes.
20. Assertion – the endangered species are those which are facing the danger of extinction.
 Reason- the Red data book contains a record of endangered species.

Section B (2 marks)

Answer the following

21. What do you mean by persistence of vision? What is the least distance of distinct vision?
 22. Will the solution of sugar in distilled water conduct electricity? Explain why?
 23. What do you understand by the term migration?
 24. What is menstruation? Explain.

OR

- What are sex hormones? Why are they named so? State their function.
 25. Differentiate between internal fertilisation and external fertilisation?

OR

- What is metamorphosis? Give examples.

Section C (3 marks)

26. List any 3 measures to protect yourself during an earthquake?
 27. What are the characteristics of an image formed by a plane mirror?
 28. Define force. Hence describe the effects of force.

Or

- Why friction is considered as a necessary evil.
 29. When the free ends of a tester are dipped into a solution, the magnetic needle shows deflection. Can you explain the reason?
 30. Name three liquids, which when tested in the manner shown in Fig.14.9, may cause the magnetic needle to deflect.

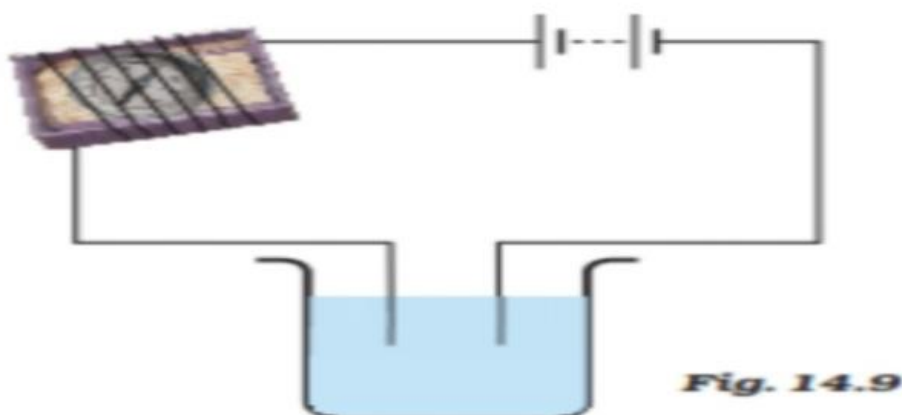


Fig. 14.9

31. In an experiment, 4.5 kg of a fuel was completely burnt. The heat produced was measured to be 180,000 kJ. Calculate the calorific value of the fuel.

32. Define asexual reproduction. Describe two methods of asexual reproduction in animals.

OR

Prepare a table having two columns depicting names of endocrine glands and hormones secreted by them.

33. What are the causes and consequences of deforestation?

Section D (5 marks)

34. What is an electroscope? Give the principle behind its working and explain its working with a simple diagram.

Or

Explain how noise pollution occurs. Describe its harmful effects and explain how it can be reduced.

35. Write notes on

(a) Adam's apple.

(b) Secondary sexual characters.

(c) Sex determination in the humans.

OR

Explain the structure of female reproductive system with the help of a labelled diagram.

36. Define in brief for the following

(i) Electroplating with example (2 marks)

(ii) Combustion (1 mark)

(iii) Parts of flame (2 marks)

Section E

CASE BASED QUESTIONS

II. Read the passage and answer the following questions

37. The blanket of air around the earth is called Atmosphere. The discovery of atmospheric pressure gives a fact that air has weight. The pressure at any point exerted by the weight of the air is called Atmospheric pressure. The atmospheric pressure at a place decreases with an increase in altitude. The atmospheric pressure at a place is the force exerted by the weight of the air column above that place. As we go up the length of the air column above us decreases. At the top of a mountain some people can feel their ears "popping" due to a decrease in air pressure. The ears pop to balance the difference in pressure inside and outside the body.

(a) What is atmospheric pressure? (1)

(b) Give the unit of Atmospheric pressure and name the device used to measure atmospheric pressure. (1)

(c) We know that there is a huge amount of atmospheric pressure on us. But we do not experience its effect. Why? (2)

38. A chemical process in which a substance reacts with oxygen to give off heat is called combustion. The substance that undergoes combustion is said to be combustible. It is also called a fuel. The fuel may be solid, liquid or gas. Sometimes, light is also given off during combustion, either as a flame or as a glow.

The lowest temperature at which a substance catches fire is called its ignition temperature. The substances which have very low ignition temperature and can easily

catch fire with a flame are called inflammable substances. Examples of inflammable substances are petrol, alcohol, Liquefied Petroleum Gas (LPG)

i. What are combustible substance?

ii. Fuels can be :

iii. What is ignition temperature?

iv. What are inflammable substances?

39. The most conspicuous change during puberty is the sudden increase in height. At this time the long bones, that is, the bones of the arms and the legs elongate and make a person tall. All parts of the body do not grow at the same rate. Sometimes the arms and legs or hands and feet of adolescents look oversized and out of proportion with the body. But soon the other parts catch up and result in a proportionate body. You must have noticed that height of an individual is more or less similar to that of some family member. This is because height depends on the genes inherited from parents. It is, however, very important to eat the right kind of food during these growing years. This helps the bones, muscles and other parts of the body get adequate nourishment for growth.

Q.1. Puberty begins at the age of:

- (a) 15 years (b) About 11 years (c) 20 years (d) 8 years

Q. 2. The right diet during the time of adolescence should include:

- (a) Proteins (b) Vitamins (c) Carbohydrates (d) All of these

Q.3. Give any two changes that take place at puberty other than those mentioned in the given passage.

Q.4. Apart from taking a healthy balanced diet what is the other requirement to have a healthy adolescence period?