

O.P.JINDAL SCHOOL, SAVITRINAGAR
ANNUAL EXAMINATION-(2023-24)

CLASS-VIII
Subject-Science

MM-80
Time:3hours

Fifteen minutes extra will be given for reading the Question Paper.

General Instructions – All the questions are compulsory.

1. The Question Paper comprises of 6 sections A, B, C, D,E, F. There are 35 questions in all.
2. Section A, Q1 comprises of 12 MCQ type questions and carries 1 mark each.
3. Section B, Q13 comprises of (i to vi) 6 Case-Based type questions.
4. Section C, Q14 comprises of 2 Assertion-Reason type questions.
5. Section D, Q15 to Q23 are very short answer type questions, carries 2 marks each.
6. Section E, Q24 to Q32 are short answer type questions, carries 3 marks each.
7. Section F, Q33 to Q35 are long answer type questions, carries 5 marks each.

SECTION-A

1. Lightning occurs due to...
(a) wind (b) rain (c) electric discharge (d) earthquake
2. An electrolyte is..
(a) a metal (b) a liquid that conducts current (c) a non-metal (d) none of these
3. Loudness of sound is determined by..
(a) Pitch (b) frequency (c) amplitude (d) time period
4. Which of the following does not conduct electricity..
(a) Sugar solution (b) Vinegar solution
(c) Lemon juice solution (d) Caustic soda solution
5. Electroplating is based on
(a) Heating effect of electricity (b) chemical effect of electricity
(c) Physical effect of electricity (d) magnetic effect of electricity
6. Which of the following determines the sex of the baby?
(a) Chromosomes (b) Chloroplast (c) Hormones (d) Pituitary
7. Thyroxin hormone is produced by...
(a) Adrenal gland (b) testes (c) pituitary gland (d) thyroid gland
8. We are able to see an object due to the presence of...
(a) light (b) dark (c) refraction (d) object

9. The number of vibrations made by a vibrating body in one second is
 (a) frequency (b) noise (c) loudness (d) pitch
10. The magnitude of an earthquake is measured in....
 (a) Kelvin scale (b) Celsius scale (c) Decibel scale (d) Richter scale
11. In humans, the development of fertilized egg takes place in the...
 (a) ovary (b) oviduct (c) testis (d) uterus
12. The process of transfer of charges from a charged object to the earth is called...
 (a) lightning (b) oscillation (c) earthing (d) electron movement

SECTION-B

13. Read the passage and answer the following questions

In each hydra, there may be one or more bulges. These bulges are the developing new individuals and they are called buds. In hydra too the new individuals develop as outgrowths from a single parent. This type of reproduction in which only a single parent is involved is called asexual reproduction. Since new individuals develop from the buds in hydra, this type of asexual reproduction is called budding. Another method of asexual reproduction is observed in the microscopic organism, amoeba. Amoeba is a single-celled organism. The type of asexual reproduction in which an animal reproduces by dividing into two individuals is called binary fission. Apart from budding and binary fission, there are other methods by which a single parent reproduces young ones. Cloning is the production of an exact copy of a cell, any other living part, or a complete organism. Cloning of an animal was successfully performed for the first time by Ian Wilmut and his colleagues at the Roslyn Institute in Edinburgh, Scotland. They successfully cloned a sheep named Dolly. Dolly was born on 5th July 1996 and was the first mammal to be cloned.

- (i) The number of modes by which animals reproduce are..
 (a) Two (b) three (c) four (d) none of these
- (ii) Binary fission is observed in..
 (a) Hydra (b) yeast (c) Amoeba (d) human being
- (iii) Asexual reproduction is observed in....
 (a) cow (b) buffalo (c) sponge (d) hen
- (iv) Dolly was a healthy clone of which of the following sheep..
 (a) Finn Dorsett sheep (b) Scottish blackface ewe (c) Suffolk (d) Cheviot
- (v) Reproduction is essential for the continuation of a ...
 (a) Genus (b) Species (c) Breed (d) Group
- (vi) In Hydra, the mode of reproduction is....
 (a) asexual (b) sexual (c) both (a) and (b) (d) none of these

SECTION-C

14. Questions (i) and (ii)-are Assertion and Reason questions:

In these questions (i) and (ii) statement of assertion followed by a statement of reason is given.

Choose the correct answer out of the following choices:

(i)Assertion- The changes which occur at adolescence are controlled by hormones.

Reason- hormones are chemical substances secretion from endocrine glands.

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

(ii)Assertion- electrical charged can be transferred from a charged object to another through a metal conductor.

Reason- Metal is a bad conductor of electricity.

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

SECTION-D

15. What are viviparous and oviparous animals?

16. Which hormone is released by pancreas? What is its function?

17. Two astronauts are floating close to each other in space. Can they talk to each other without using any special device? Give reasons.

OR

State the differences between ultrasonic sound and infrasonic sound?

18. What is the far point and near point of the human eye with normal vision?

19. The sound from a mosquito is produced when it vibrates its wings at an average rate of 500 vibrations per second. What is the time period of the vibration?

20. Lightning and thunder take place in the sky at the same time and at the same distance from us.

Lightning is seen earlier and thunder is heard later. Explain why?

21. Is it safe for the electrician to carry out electrical repairs outdoors during heavy downpour? Explain.

OR

Sometimes, a crackling sound is heard while taking off a sweater during winters. Explain.

22. Why is chromium used for electroplating? Why the objects have chromium plating are not made of chromium itself?

23. What is an LED? Why is it preferred to other type of bulbs?

SECTION-E

24. What are sex hormones? How do they work in the human body?

OR

Give the names of the following

- (a) Product of fertilization.
- (b) Baby forming from body cell.
- (c) Changes taking place during the development of an animal.

25. Explain binary fission in Amoeba with the help of diagram.

26. What safety measures should be taken during lightning and thunderstorm? Write any three.

OR

What precautions would you take to protect yourself during an earthquake if you are at home? Write any three.

27. Differentiate between regular and diffused reflection. Does diffused reflection mean the failure of the laws of reflection?

28. What is meant by dispersion of light? Name a natural phenomenon showing dispersion. Draw a ray diagram to show dispersion of light.

29. Explain in what way noise pollution is harmful to humans.

30. What are the changes in male at the onset of puberty?

31. Write the name of the device which can be used to detect a charged body. Draw the diagram of the device.

OR

If aluminum strips of an electroscope are replaced by plastic strips and a charged body is brought in contact with the metal clip. What will happen?

32. What do you mean by electroplating? Write two applications of electroplating.

SECTION-F

33. (i) What is cataract? How can the vision of a person having cataract be restored?

(ii) Explain how you can take care of your eyes.

(iii) What happens when a ray of light falls perpendicularly on the surface of a plane mirror?

OR

(i) What are the functions of the following parts of the eye?

- (a) Iris (b) Retina (c) Optic nerve

(ii) Draw a labeled sketch of human eye.

34. (i) What is the difference between noise and music? Can music become noise sometimes?

(ii) Which produces sound of a higher pitch: a drum or a whistle? Why?

(iii) How does loudness depend on the amplitude of vibrations?

OR

(i) What are called inaudible sounds?

(ii) Describe how sound is produced by the human voice box (or larynx).

(iii) State the various measures which can be taken to control noise pollution in our surroundings

35. (i) Differentiate between internal fertilization and external fertilization.

(ii) Draw a labeled diagram to show the female reproductive system in human beings.

OR

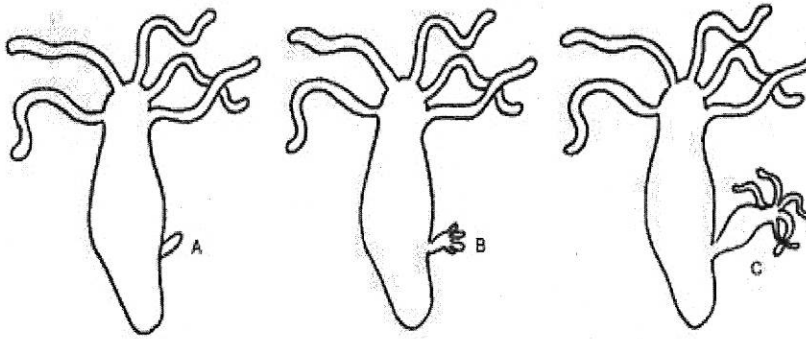
(i) Give two differences between a zygote and a foetus.

(ii) The diagrams are given showing reproduction in an organism. Observe the diagrams and answer the following questions.

(a) Name the organisms.

(b) Name the type of reproduction.

(c) Label A, B and C in the diagram.



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