

Class 8 Science Sample Paper 1

Time: 2 ½ hrs

Total Marks: 80

General Instructions:

1. The question paper consists of 34 questions and is divided into four sections, A, B, C and D.
2. All questions are compulsory.
3. Section A comprises question numbers 1 to 15. These are multiple choice questions carrying one mark each. You are to select one most appropriate response out of the four provided options.
4. Section B comprises question numbers 16 to 22. These are SAQs carrying two marks each.
5. Section C comprises question numbers 23 to 31. These are SAQs carrying four marks each.
6. Section D comprises question numbers 32 to 34. These are SAQs carrying five marks each.

SECTION – A

1. In case of reproduction in Frogs, the eggs are hold together by [1]
 - a) Water
 - b) Shell
 - c) Jelly
 - d) Frog's saliva
2. Which of the following gives the step wise method of reproduction? [1]
 - a) Fertilisation → zygote → foetus → embryo
 - b) Fertilisation → foetus → zygote → embryo
 - c) Fertilisation → embryo → zygote → foetus
 - d) Fertilisation → zygote → embryo → foetus
3. The development of shell in hen's egg takes places during, [1]
 - a) The formation of zygote
 - b) The fertilisation

- c) The travel to the oviduct
 - d) The incubation period
4. In case of multicellular organisms, a group of specialized cells form, [1]
- a) Embryo
 - b) Organs
 - c) Tissues
 - d) Nerves
5. Which of the following components of plant cells permits to and fro movement of particles? [1]
- a) Cytoplasm
 - b) Cell membrane
 - c) Plasma membrane
 - d) Cell wall
6. Moths and insects repellent has its base from [1]
- a) Coal
 - b) Coke
 - c) Coal tar
 - d) Fossils
7. Which of the following artificial fibers are suitable for making men's and women's casual wears? [1]
- a) Rayon
 - b) Polyester
 - c) Acrylic
 - d) Nylon
8. Under which of the following conditions, the remains of plants get converted to coal? [1]
- a) High pressure and low temperature
 - b) High pressure and high temperature
 - c) Low pressure and high temperature
 - d) Low pressure and low temperature
9. Which of the following condition is the main reason for "droughts"? [1]
- a) Clearance of forests
 - b) Increase in global temperature

- c) Over grazing of soil
- d) Reduction of infiltration rate

10. Which of the following is a major threat to protected forests and wild life sanctuaries?

[1]

- a) Encroachment
- b) Global Warming
- c) Drought
- d) Scarcity of food

11. The frictional force dependant on

[1]

- a) Shape of the objects and nature of the fluid
- b) Nature of the fluid and weight of the object
- c) Weight of the object and shape of the object
- d) Shape and size of the objects

12. Balu applies force on a moving remote truck. Which of the following action will take place?

[1]

- a) The truck will change its direction
- b) The truck will stop
- c) The truck will increase its speed
- d) All the above

13. Which of the following is an example of muscular force?

[1]

- a) Movement of a car on the road
- b) The presence of magnetic field around the earth
- c) Boxer and kickboxing bag
- d) The to and fro motion of pendulum

14. What colour does a combination of copper hydroxide and copper carbonate produce?

[1]

- a) Red
- b) Blue
- c) Green
- d) Colourless

15. The maximum visibility of sunlit portion of the moon occurs on

[1]

- a) New moon day

- b) Full moon day
- c) Days before full moon
- d) Days after full moon

SECTION – B

16. Explain the contribution of “magnifying glasses” in studying the Cell of the organisms. [2]
17. Explain the process of formation of multicellular embryo from a single celled reproductive unit. [2]
18. Which season and months are best in India to sow the groundnut seeds? [2]
19. Which organelle in cytoplasm is responsible for carrying hereditary information? [2]
20. What are protected areas? Give example of one such kind. [2]
21. Explain how vibration and sound are interrelated. [2]
22. What force is present in solar system? What does it do? [2]

SECTION – C

23. [4]
- i) Does all the body parts grow at the same time during puberty?
 - ii) Explain two such scenarios to prove.
24. Explain the process of fertilisation in frogs. Discuss the various stages involved in the life cycle of frog. [4]
25. Explain the importance of microorganisms in the production of dairy products. [4]
26. What are the inputs and outcomes of the “combustion” process? Give an example. [4]

27. How to prevent milk from spoiling and preserve it? [4]
28. What action has been taken to preserve the river Ganga? [4]
29. Give an example of highly reactive metal and non-metal and a method to store them. [4]
30. When does the eye consider an object is in motion? Give example. [4]
31. Pressure is inversely proportional to area. Prove it with example. [4]

SECTION – D

32. How outgrowths become individuals in Hydra? Explain with diagram. [5]
33. Give any five different kind of pollutants present in the air and the sources of it. [5]
34. [5]
- i) Application of force leads zero changes in state of motion. Prove with example.
 - ii) Give two causes of tremors.