Class 8 Science - Sample Paper Set I



Time allowed: 3 hours; Maximum marks: 90

General Instructions:

- a) All Questions are compulsory
- b) The Question Paper consists of 42 Questions divided in to four sections A, B, C and D
- c) Section- A comprises of 15 questions of one mark each
- d) Section- B comprises of 11 questions of two mark each
- e) Section- C comprises of 11 questions of three mark each
- f) Section- D comprises of 5 questions of Four mark each

Section - A

- 1. Which gas is associated with the greenhouse effect?
 - a. Oxygen
 - b. Carbon dioxide
 - c. Sulphur dioxide
 - d. Nitrogen dioxide
- 2. LED stands for:
 - a. Light Emitting Disco
 - b. Light Emitting Diode
 - c. Light Emitting Display
 - d. Light Emitting Device
- 3. Streamlined body of a fish:
 - a. Reduces weight
 - b. Increases weight
 - c. Increases friction
 - d. Decreases friction
- 4. An example of contact force is:
 - a. Frictional force
 - b. Magnetic force
 - c. Gravitational force
 - d. Electro-static force
- 5. The master gland in the body is:
 - a. Adrenal
 - b. Thyroid
 - c. Pituitary
 - d. Parathyroid

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- 6. The outermost covering of the body of the cell is called:
 - a. Skin
 - b. Nucleus
 - c. Cytoplasm
 - d. Cell membrane
- 7. The least reactive metal is:
 - a. Iron
 - b. Gold
 - c. Silver
 - d. Sodium
- 8. Identify the atmospheric pollutant gas.
 - a. Oxygen
 - b. Helium
 - c. Nitrogen
 - d. Sulphur dioxide
- 9. The right meal for adolescents consists of:
 - a. Chips, noodles, coke
 - b. Rice, noodles, burger
 - c. Chapati, dal, vegetables
 - d. Vegetable cutlets, chips, lemon drink
- 10. In which method does the cast product harden without the use of pressure?
 - a. molding
 - b. casting
 - c. extrusion
 - d. laminating
- 11. The microorganisms that play an important role in maintaining the balance of nitrogen gas in the atmosphere are:
 - a. Algae
 - b. Virus
 - c. Bacteria
 - d. Protozoa
- 12. Firemen crawl when entering a burning building because:
 - a. They are trained to crawl
 - b. Smoke is hot and rises up
 - c. It is faster to move by crawling
 - d. Amount of CO₂ is more at the surface

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- 13. Identify the power house of a cell:
 - a. Nucleus
 - b. Cytoplasm
 - c. Golgi bodies
 - d. Mitochondria
- 14. A common food preservative is:
 - a. Nitric acid
 - b. Benzoic acid
 - c. Sulphuric Acid
 - d. Hydrochloric Acid
- 15. SI unit of force is:
 - a. Pascal
 - b. Newton
 - c. Newton Metre
 - d. Newton / Metre²

Section - B

- 16. What is a nucleus? Name the different components of nucleus.
- 17. Why is tin electroplated on iron to make cans used for storing food?
- 18. Identify the action as 'push' or 'pull' in each of the instances given below.
 - a. A cricket ball hit by a batsman
 - b. Plucking the nail off the wall
- 19. Explain why sliding friction is less than static friction.
- 20. Name two soft metals which can be cut with a knife.
- 21. Mention the important uses of microorganisms in agriculture and medicine.
- 22. Name two gases which are mainly responsible for acid rain.
- 23. Mention any two features seen in boys and girls which distinguish them from each other at puberty.
- 24. Plastics are replacing metals in the car industry. Give two possible reasons to support your answer.
- 25. We should avoid taking medicines / drugs unless prescribed by a doctor. Give reasons.
- 26. A lot of dry leaves are collected and burnt every day. Do you think it to be a right practice? If not, what should be done to dispose off the dry leaves?



Section - C

27.

- a. Define balanced and unbalanced forces.
- b. Which materials are considered brittle? Give an example of brittle and non-brittle substances.
- 28. How can we reduce, reuse and recycle water?
- 29. In the figure, name and mark the positions of the endocrine glands which release the hormones that:
 - a. Controls the release of sex hormones
 - b. Prevents diabetes
 - c. Is responsible for the secondary sexual characters in boys
- 30. With the help of diagrams, explain how the use of oil reduces friction between two surfaces in contact with each other.
- 31. What are the commercial uses of microorganisms? List any three.
- 32. Write chemical equations for the following reactions:
 - a. Reaction of aluminum with hydrochloric acid
 - b. Reaction of zinc with sulphuric acid
 - c. Reaction of zinc with copper sulphate
- 33. How much force is needed to apply a pressure of 10000 Pa over an area of 2 cm²?
- 34. How does the shape of a cell depend on the function it performs? Explain three examples.
- 35. Iron is more reactive than copper. Can you write an activity to show this?
- 36. List any three harmful effects associated with plastic disposal.
- 37. The level of air pollution is higher at a busy traffic intersection. Why?

Section - D

- 38. What do CFC's stand for? Name some devices where CFC's are being used. Why are they considered to be as pollutants?
- 39. How is a plant cell different from an animal cell?
- 40. What are synthetic fibers? List any two advantages and disadvantages of synthetic fibers.
- 41. Describe any five applications of pressure.
- 42. Name the hormone which would be released during the following situation:

A frightened person

Development of tadpole to frog

Development of caterpillar to moth

Growth of a child to adult