

O. P. JINDAL SCHOOL, SAVITRI NAGAR
Half yearly Examination (2019-2020)

Class / Sec – VIII

Subject – Science

Name:- _____

MM : 8

Time : 3 hr

Roll No _____

(Fifteen minutes Extra will be given for reading the Question Paper)

General Instructions :

- All questions are compulsory.
- There are three sections - A, B, and C
- Question no. 1 to 10 are MCQ type, Choose the correct option and Q.No. 11 to 20 are objective type carry 1 mark each.
- Question no. 21 to 30 carry 3-marks each and to be answered in 30-40 words.
- Question no. 31 to 36 carry 5-marks each and to be answered in 80-100 words.

Section – A

Q1. Which of the following is the S.I unit of force?

- (a) N (b) m/s (c) Nm (d) N/m

Q2. Velocity of sound in air is

- (a) 390 m/s (b) 340 m/s (c) 400 m/s (d) 500 m/s

Q3. When a glass rod is rubbed with woollen cloth, the glass rod will acquire

- (a) + ve (b) – ve (c) Either + ve or – ve (d) No charge

Q4. Which of the following is an element of Halogen family?

- (a) Hydrogen (b) Bromine (c) Nitrogen (d) Oxygen

Q5. Which of the following is hydrophobic?

- (a) Cotton (b) Jute (c) Flax (d) Linen

Q6. Which of the following fibre compete with wool?

- (a) Cotton (b) Acrylic (c) Rayon (d) Nylon

Q7. Blood is a type of _____ Tissue.

- (a) Epithelial (b) Connective (c) Nervous (d) Muscular

Q8. Which of the following is responsible for transporting water and mineral from the root?

- (a) Xylem (b) Pith (c) Phloem (d) Cortex

Q9. Blue green algae are also known as

- (a) Cyanobacteria (b) Sargassum (c) Diatoms (d) Seaweeds

Q10. Plants used as green manure include

- (a) Gram (b) Cowpea (c) Cauliflower (d) Cabbage

Q11. Why is the moon's force of gravity less than that of the earth?

Q12. How does a streamlined body is helpful?

Q13. Explain why can't echo be heard all the times?

Q14. Mention two uses of nitrogen.

Q15. What is tincture of iodine?

Q16. What do you mean by ignition temperature?

Q17. Mention any two advantages of synthetic fibres in comparison to natural fibres.

Q18. Why is the nucleus called the control room of the cell?

Q19. Why is the cell known as structural and functional unit of the cell?

Q20. What are infrasonics?

Section – B

Q21. "Friction is a necessary evil". Explain it.

OR

What is friction? How oiling and using ball bearings help to reduce friction?

Q22. Mention any three useful bacteria.

Q23. How does lightning conductor work? How it is made?

Q24. Mention any three bad effects of using plastics.

Q25. Draw a well labelled diagram to show the structure of a floating dome type biogas plant.

Q26. Explain why-

- i) A coaster placed over the rim of a glass of water stick even if you invert it.
- ii) The cutting edge of a knife made sharp.
- iii) A moving ball comes to rest in a while even if no force is applied.

Q27. Draw and label the structure of Euglena.

Q28. Mention any three differences between plant cells and animal cells.

Q29. Explain three methods of irrigation.

Q30. Explain the method of preparation of viscose rayon.

Section – C

Q31. Explain with a neat labelled diagram how do we hear.

OR

How does a sound produce? What are the three characteristics of sound? What would happen to the sound produced by the stretched string if its tautness is increased?

Q32. Explain the three ways by which a body can be charged. Describe an activity to show how a body can be charged by induction.

OR

What is gold leaf electroscope? Explain how it is used? Show it with a diagram.

Q33. What is a fuel? What should be the characteristics of a good fuel? Give any four reasons.

OR

What is fractional distillation? Mention the fractions obtained on fractional distillation with their boiling range

Q34. Write any five uses of chlorine.

OR

What are noble gases? Give any two examples of it. Mention any three uses of it.

Q35. Draw and explain the nitrogen cycle.

OR

What are chemical fertilisers? Write any two advantages and disadvantages of using chemical Fertilisers.

Q36. What are protozoans? Explain two harmful and two useful protozoa.

OR

What are algae? Explain any four useful algae.
