



DELHI PUBLIC SCHOOL, GWALIOR
MODEL TEST PAPER
CLASS – VIII
SUBJECT – SCIENCE

Time: 03 hrs.

M.M. : 80

General Instructions:

1. All questions are compulsory.
2. Wherever necessary, the diagram drawn should be neat and properly labeled.
3. This question paper consists of three sections A, B & C.

Section A – Physics

Answer the following questions

- Q1. Why do we generally sprinkle a small amount of talcum powder on carom board before playing? (2)
- Q2. Why do sportsmen use shoes with spikes? (1½)
- Q3. Why do our ears pop sometimes when flying in an airplane? (1½)
- Q4. What do you mean by force? What are the various effects of it? (3)
- Q5. State any three advantages of friction. (3)
- Q6. Differentiate between loudness and pitch. (3)
- Q7. How do we hear sound? Explain with the help of a labeled diagram. (3)
- Q8. a) Calculate the pressure produced by a force of 4N on an area of 0.5 m². (5)
b) Why is it difficult to breathe at higher altitudes?

OR

- (a) What force acting on an area of 0.5m² will produce a pressure of 500 Pa.?
(b) Why objects moving in fluids must have special shapes? Explain.

Q9. Multiple Choice Questions (MCQ's):

- (a) At higher altitude the atmospheric pressure is- (½)
(i) More (ii) Less
(iii) Equal (iv) None of these
- (b) Sound cannot move in- (½)
(i) Vacuum (ii) Solid
(iii) Liquid (iv) Gas
- (c) Voice of which of the following is likely to have minimum frequency? (½)
(i) Baby girl (ii) Baby boy
(iii) A man (iv) A woman
- (d) The order of speed of sound is- (½)
(i) Air > Water > Solid (ii) Solid > Liquid > Gas
(iii) Liquid > Gas > Solid (iv) Air > Solid > Liquid
- (e) The pull of Earth is called- (½)
(i) Mechanical force (ii) Electrostatic force
(iii) Frictional force (iv) None of these
- (f) Lightning occurs because of- (½)
(i) Electric magnification (ii) Electrolysis
(iii) Electric discharge (iv) Electromagnetism

Section B - Chemistry

Answer the following questions

- Q1. Why is rayon called artificial silk? (2)
- Q2. Why are saucepan handles made of thermosetting plastics? (1½)
- Q3. Give reason for the following: - (1½)
Foodstuffs with acid components should not be stored in aluminium utensils.
- Q4. Explain the term 'metallurgy'.
- Q5. Mention physical properties of non metals. (3)
- Q6. State the uses of the following polymers: (3)
(a) Melamine
(b) Polyvinyl chloride (PVC)
(c) Teflon
- Q7. What happens when- (3)
(a) Dilute sulphuric acid is poured on a copper plate?
(b) Iron nails are placed in copper sulphate solution?
Write word equations of the reactions involved.
- Q8. What are plastics? Write the differences between thermoplastics and thermosetting plastics. (5)

OR

Write five differences between metals and non-metals.

Q9. Multiple Choice Questions (MCQ's):

- (a) Metals react with oxygen to form: (½)
(i) Basic oxides (ii) Acidic oxides
(iii) Hydroxides (iv) They do not react with oxygen
- (b) An iron pipe coated with the following metal is called a galvanized pipe: (½)
(i) Iron (ii) Chromium
(iii) Zinc (iv) Copper
- (c) The lead inside a pencil is made primarily from: (½)
(i) Lead metal (ii) Graphite
(iii) Mercury (iv) Diamond
- (d) The major raw material for rayon comes from- (½)
(i) Coal (ii) Petroleum
(iii) Both coal and petroleum (iv) wood
- (e) The fibre made by adding polyester to wool is called- (½)
(i) Polywool (ii) Pure wool
(iii) Polycot (iv) Cotswool
- (f) Which of the following is also known as artificial wool? (½)
(i) PET (ii) Acrylic
(iii) Teflon (iv) None of these

Section C – Biology

Answer the following questions

- Q1. Algae is thallus like in structure. Justify this statement. (2)
- Q2. A farmer sprayed pesticides in his field of paddy. He felt ill soon after. What do you think happened? (2)
- Q3. Virus is considered as both plant and animal? Give reasons. (1½)
- Q4. Why are manures better than fertilizers? (1½)

- Q5. Define the following terms: (3)
 (a) Fermentation.
 (b) Migration.
- Q6. Differentiate between Rabi Crops and Kharif Crops. (3)
- Q7. Define green revolution. (3)
- Q8. How does loosened soil allow the roots to breathe easily? (3)
- Q9. Draw nitrogen cycle. (3)
- Q10. (a) Write a short note on irrigation. (5)
 (b) Write the causative organism of the following diseases:
 (i) Measles (ii) Malaria
 (iii) Tuberculosis (iv) Polio

OR

- (a) Write any two causes and two consequences of deforestation.
 (b) Write two methods of food preservation.

Q11. **Multiple Choice Questions (MCQ's):**

- (a) Which of the following is a plant disease? (½)
 (i) Anthrax (ii) Citrus canker
 (iii) Rust of wheat (iv) Both (ii) and (iii)
- (b) Which of the following is an example of fermented food? (½)
 (i) Idli (ii) Curd
 (iii) Bread (iv) Both (i) and (iii)
- (c) Good quality seed will- (½)
 (i) Sink (ii) Float
 (iii) Both (i) and (ii) (iv) None of these
- (d) The first antibiotic to be discovered was- (½)
 (i) Streptomycin (ii) Tetracycline
 (iii) Penicillin (iv) Aspirin
- (e) Bacterium that helps in the formation of milk product is- (½)
 (i) Mycobacterium (ii) Lactobacillus
 (iii) Clostridium (iv) None of these
- (f) Which of the following is a weedicide? (½)
 (i) 2, 4D (ii) Harrow
 (iii) Khurpi (iv) None of these

-----x-----