

**Final Unit (8 March 2016)**

**Class - VIII**

**Paper- General Science**

**Time: 3hrs.**

**M.M. 90**

**General Instructions:**

1. *The paper has been divided into three parts; Physics, Chemistry & Biology.*
2. *All questions are compulsory.*
3. *Draw the diagrams wherever necessary.*

**Physics (30)**

**I) Answer in one word -**

**(1×4=4)**

- Q1. Name the planet with minimum period of rotation.
- Q2. Write surface temperature on moon during lunar day.
- Q3. How many images will be formed when two mirrors are placed perpendicular to each other?
- Q4. Circle the odd one out. Give reasons -  
Crust          Core          Ocean          Mantle

**II) Give short answers -**

**(7×2=14)**

- Q5. Why do we see the same side of moon from earth?
- Q6. Why does pole star appear stationary?
- Q7. Define the following related to reflection of light through plane mirror -  
a) Angle of reflection          b) Point of incidence
- Q8. What do you mean by dispersion of light? Give example.
- Q9. Why is a car with closed windows a safe place during lightening?
- Q10. Lightning and thunder take place simultaneously. Why do we hear the sound later than the flash of lightning?
- Q11. Can we transfer charge from a charged body to an uncharged body? Give one example.

**III) Answer the following questions and draw diagrams wherever required.**

**(4×3=12)**

- Q12. Name any one summer constellation. Draw its shape. Write its two main features.
- Q13. What is hypermetropia? Draw the ray diagram for defected eye. Name the lens used for its correction.
- Q14. Write the functions of following parts of the Human eye -  
a) Cornea          b) Retina          c) Iris
- Q15. What is lightening? How does it take place?

**Chemistry (30)**

1. Name a liquid metal at room temperature. (1)
2. Name the property because of which strings in guitar have to be of metal. (1)
3. Which gas can kill a person, when inhaled in excess? (1)

4. Write two methods to control water pollution? (2)
5. Write a note on global warming. (2)
6. Objects made of silver become black with passage of time. Give reason. (2)
7. Why electric wires are made of copper? (2)
8. What are the damaging effects of ozone-layer depletion? (2)
9. What happens when following elements react with oxygen? (give reactions)
  - i) Carbon (C)      ii) Magnesium (Mg)      iii) Sulphur (S) (3)
10. State any three physical properties of metals and non metals on the basis of
  - i) Hardness      ii) Sonority      iii) Lusture (3)
11. Write uses of (i) iodine      (ii) chlorine      (iii) diamond (3)
12. Define: (5)
  - a) Eutrophication
  - b) Biological Magnification
  - c) Ductility
  - d) Displacement Reaction
  - e) Rusting of Iron

### Biology (30)

- Q1. Give the shape of nerve cell.
- Q2. Name female sex hormone.
- Q3. Which gland secretes hormone insulin? (1×3=3)
- Q4. What is Adam's apple? Draw its diagram also.
- Q5. Define metamorphosis. Which hormone controls metamorphosis in frog?
- Q6. What is cell membrane? Give its two functions.
- Q7. Give differences between oviparous and viviparous animals along with examples.
- Q8. Explain budding in hydra along with diagram.
- Q9. Give differences between animal and plant cell on the basis of cell wall, plastids and centrosome.
- Q10. A 12 years old girl attained 90% of full height. If her present height is 135cm tall, find her full height at the end of the growth period. (give formula also) (3×3=9)
- Q11. How is sex determined in human beings? Explain with the help of flow chart. (5)
- Q12. Draw well labelled diagrams of
  - a) Human sperm      b) Onion cells (2½×2½=5)