

## MP BOARD QUESTION PAPER 2016

Science (M.P.) : Class X

Time : 3 Hours Max. Marks : 75

Q. 1. Fill in the blanks :

- (i) Chemical equilibrium is only possible in vessel.
- (ii) The focal length of mirror is infinity.
- (iii) Distilled water is a of electricity.
- (iv) Fermentation reaction occurs in presence of
- (v) The transportation of water and minerals in plants is done by

Q. 2. Choose the correct alternative : .

- (i) The excretory organs of earthworm :  
(a) Liver (b) Nephridia (c) Lungs (d) Skin.
- (ii) The metal which is stored in kerosene oil is :

(a) Iron (b) Copper (c) Sodium (d) Calcium.

(iii) Saptrishi is :

(a) A cornet (b) A. constellation (c) A planet (d) A galaxy.

(iv) The number of chromosomes found in human cell is :

(a) 23 pairs (b) 24 pairs (c) 20 pairs (d) 22 pairs.

(v) The planet nearest to the sun is :

(a) Jupiter (b) Mercury (c) Saturn (d) Mars.

Q. 3. Match the column : x 5 = 5

'A.' 'B'

(i) Halley (a) Iron

(ii) Bakelite (b) Methane

- (iii) Producer (c) Star
- (iv) Haematite (d) Green plants
- (v) Bio-gas (e) Synthetic plastic
- (f) A cornet.

Q. 4. Write the answer in one sentence each : 1 x 5 = 5

- (i) Give the name of discoverer of blood groups.
- (ii) In which is the purify of gold expressed ?
- (iii) What type of electric current flows in domestic circuits ?
- (iv) What is the name of respiratory organ of fish ?
- (v) Which properties of plants are described in 'Rigveda' ?

Q. 5. What is the difference between real and imaginary (virtual) images ? 2

Or, What are the primary colours of pigments ?

Q. 6. What is potential ? Write its Si. unit. 2

Or, Write Ohm's law.

Q. 7. What is denatured alcohol ? 2

Or, Write the name of two enzymes used in alcohol preparation from molasses.

Q. 8. Differentiate between stars and planets. 2

Or, Write characteristics of terrestrial planets.

Q. 9. What is hypermetropia ? Gives its reasons. Explain with the help of a labeled ray diagram, how it is corrected ? 4

Or, What is the difference between compound microscope and telescope ?

Q. 10. What are the factors responsible for resistance of a conductor ? 4

Or, What precautions should we have taken while using electricity ?

Q. 11. Differentiate between nuclear fission and nuclear fusion. 4

Or, Describe fixed dome type biogas plant with diagram.

Q. 12. Describe the reproduction in Amoeba by binary fission method, with diagram. 4

Or, Why Mendel selected pea plant for his experiment ? Write any four reasons.

Q. 13. Explain quick vinegar method with diagram. 4

Or, What is silver mirror test ? Explain with chemical equation.

Q. 14. What do you mean by pH value ? Give its importance. 5

Or, Write the chemical name, chemical formula, preparation method and two uses of plaster of Paris.

Q. 15. Write the difference between aerobic and anaerobic respiration. 5

Or, Explain the method of ingestion of food in Nepenthes (pitcher plant) with the help of diagram.

Q. 16. Describe the functions of blood. 5

Or, Explain the mechanism of reflex action with labeled diagram.

Q. 17 (A) Explain magnetic separation method of ore. 6

(B) Explain froth floatation process.

Or, Give description of extraction of sulphur, by Frasch process with labeled diagram.

Q. 18 What is ozone layer ? Write the substances affecting ozone layer and describe its harmful effects. 6

Or, Write the medicinal importance of following plants :

(i) Ginger (ii) Ashwagandha (iii) Pattharchatta (iv) Bel (v) Bhringraj (vi) Saunf