

MP BOARD QUESTION PAPER 2013

Science (M.P.) : Class X

Time : 3 Hours Max. Marks : 75

Section-A

Q. 1. (A) Fill in the blanks : 1 x 5=5

- (i) _____ is the nearest planet of the Sun.
- (ii) A great red spot has been observed on _____ surface.
- (iii) The central part of the earth is called its _____.
- (iv) _____ are those which structures similar to that of earth.
- (v) The collections and study of details of known or unknown heavenly bodies in outer space is called _____.

Ans. (i) Mercury, (ii) Jupiter, (iii) Core, (iv) Terrestrial Planets, (v) Space exploration.

(B) Choose the correct match from Column 'B' for Column 'A'. 1x5=5

- | 'A' | 'B' |
|-------------------------------------|----------------|
| (i) Red blood corpuscles | (a) Pancreas |
| (ii) Nephridia | (b) Earthworm |
| (iii) Insulin | (c) Hemoglobin |
| (iv) Aluminum | (d) Bauxite |
| (v) Translocation of food in plants | (e) Phloem. |

Ans. (i) (c), (ii) (b), (iii) (a), (iv) (d), (v) (e)

Q. 2. (A) Choose the correct alternative :

Pitcher plant (Nepenthes) is :

- (a) Parasite (b) Symbiotic (c) Saprophyte (d) Insectivorous.

(ii) Photosynthesis occurs in :

- (a) Root (b) Stem (c) Leaf (d) Fruit.

(iii) Metal which is kept immersed in kerosene oil :

(a) Gold (b) Sodium (c) Magnesium (d) Aluminum.

(iv) S.I. unit of resistance is :

(a) Volt (b) Ohm (c) Ampere (d) Watt.

(v) An instrument which makes a big and clear image of small objects :

(a) Microscope (b) Telescope (c) Terrestrial telescope (d) All of these

Ans. (i) (d), (ii) (c), (iii). (b), (iv) (b), (v) (a) $1 \times 5 = 5$

(B) Write answers in one word each :

(i) The chemical reaction which release heat are called.

(ii) What type of mirror is used in automobiles to viewing to back side ?

(iii) Name the device which is used to prevent electrical circuits.

(iv) Purity of gold is expressed in

(v) Write the chemical formula of bleaching powder.

Ans. (i) Exothermic reaction. (ii) Convex. (iii) Fuse; (iv) Carat, (v) CaOCl_2 $1 \times 5 = 5$

Section-B

Q. 3 What is hardening and quenching of steel ? Explain. 2, 2

Or, Write four main uses of Baking Soda.

Q. 4 Explain inspiration and expiration. 2, 2

Or, Explain saprozoic and parasitic nutrition.

Q. 5 Write any four differences between Artery and Vein. 4

Or, Draw a labeled diagram of human excretory system.

Q. 6 What is silver mirror test ? Explain with reaction. 2, 2

Or, Explain the following : (i) Fermentation, (ii) Esterification.

Q. 7 What are the detergents ? How are they considered better than soap ? 2, 2

Or, Write I.U.P.A.C. name and formula of any four alcohols.

Q. 8 Write medicinal uses of the following plants : 4

(i) Haldi (ii) Tulsi (iii) Ginger (iv) Ashwagandha.

Or, What is Ozone layer ? Explain the effects of the depletion of ozone layer.

Q. 9 Write any four methods of controlling water pollution. 1, 3

Or, What is 'Rain Water Harvesting' ? Write its main objectives. (Any two)

Q. 10 Explain with the help of a labelled ray diagram, the defect of hypermetropia and how it is corrected. 5

Or, What do you mean by "Reflection of light" ? State the laws of reflection.

Q. 11 What precautions should be taken while using Liquefied Petroleum Gas (LPG) ? 5 Or, Explain the solar cooker under the following heads :

(i) Theory (ii) Labeled diagram of the device (iii) Uses.

Q. 12 Explain the process of fission in Amoeba with diagram. 5

Or, What is Genetics ? Explain the Mendal's law of dominance with a line diagram.

Q. 13 Draw a well labeled diagram of dry cell and explain its construction. 6

Or, How will you polish copper on an iron vase ? Explain with diagram.

Q. 14 What do you mean by metal corrosion ? Explain three methods for prevention of corrosion. 6

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