

MP BOARD QUESTION PAPER 2014

Science (M.P.) : Class X

Time : 3 Hours Max. Marks : 75

Section-A

Q. 1. Fill in the blanks : 1 x 5 = 5

- (i) Milky-way is a _____ shaped galaxy.
- (ii) Outer layer of the earth is called _____
- (iii) Russia launched the first artificial satellite _____ in the year 1957.
- (iv) Unit of sound measurement is _____
- (v) Mixture of Harrah, Bahera and Amla is called _____

Ans. (i) Spiral, (ii) Crust, (iii) SPUTNIK-1, (iv) Decibel, (v) Triphala.

Q. 2. Choose the correct match from Column 'IV for Column 'A' : 1x5=5

- | 'A' | 'B' |
|--------------------------------|-----------------------|
| (i) Diopetre | (a) Volt |
| (ii) Domestic electric circuit | (b) Calcium Hydroxide |
| (iii) Bio-gas | (c) Power of lens |
| (iv) Slaked lime | (d) Parallel |
| (v) Potential difference | (e) Methane. |

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

Q.3. Write the answer in one sentence each : 1 x 5 = 5

- (i) Write the name of lightest element.
- (ii) Which compound did Wohler make in the laboratory first ?
- (iii) Which disease is found in man due to the deficiency of blood ?
- (iv) Where does Urea formation take place in the body ?
- (v) Where did the grinding of food in Grasshopper ?

Ans. (i) Hydrogen, (ii) Urea, (iii) Anemia, (iv) Liver, (v) Gizzard.

Q. 4. Choose the correct alternative : 1x5=5

(i) Which of the following shows allotropy :

(a) Silver (b) Sulphur (c) Hydrogen (d) Nitrogen.

(ii) Valency of Carbon is :

(a) 1 (b) 4 (c) 3 (d) 2.

(iii) Maximum number of chambers-13 are found in the heart of :

(a) Cockroach (b) Frog (c) Human (d) Fish.

(iv) The theory .of natural selection was given by :

(a) Lamarck (b) Darwin (c) Von Bear (d) Wallace.

(v) Bauxite is the ore of :

(a) Iron (b) Aluminum (c) Manganese (d) Magnesium.

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

Q. 5. Write the main two characteristics of Jovian Planet. 2

Or, Write down the characteristics of Rocket fuel.

Q. 6. What is complementary colour ? Give one example. 2

Or, What is Short Sightedness ?

Q. 7. What is Fermentation ? 2

Or, Why is denatured alcohol not used for drinking ?

Q. 8. What do you understand by the thermal effect of electric Current ? 2

Or, What do you understand by magnetic effect of electric current ?

Q. 9. What are Vestigial Organs ? Write two names of vestigial organ found in man. 4

Or, What is Chromosome ? Draw a labeled diagram of structure of Eukaryotic Chromosome.

Q. 10. Write any four differences between Nuclear fission and Nuclear fusion. 4

Or, What is Solar Panel ? Write its main three uses.

Q. 11 Why do stars twinkle ? Give the reason. 4

Or, Draw the diagram of dispersion of light through prism and show the position of different colours of light obtained on screen.

Q. 12 Describe electric motor under the following heads : 4

(1) Labeled Ray-diagram (ii) Name the main parts of electric motor.

Or, What amount of work is done in moving a charge of 4 coulombs from a point at 220 volts to a point at 230 volts ?

Q. 13 What is Polymerisation ? Write the names of any three polymers and their one main use. 4

Or, What is Aldehyde ? Write the IUPAC names and formula of first three members of this series.

Q. 14 What is Blood ? Write down four functions of blood. 5

Or, What is Reflex Action ? Explain its mechanism with diagram.

Q. 15 What is Glycolysis ? Write main steps of it. 5

Or, What is Photosynthesis process ? Write any two affective factors and explain their effects.

Q. 16 What is Chemical Equilibrium ? Write any four main characteristics of chemical equilibrium. 5

Or, What is meant by annealing of glass ? Name the four types of glass. Write any one use of every type of glass.

Q. 17 Write the difference between Metal and Non-metal under the following heads : 6

(i) Nature (ii) State (iii) Lustre

(iv) Ductility (v) Reaction with acid (vi) Reaction with oxygen.

Or, Write the composition and its percentage (approx.) and their uses of the following alloys :

(i) Gun metal (ii) Bronze (iii) Duralumin.

Q. 18 What is Global Warming ? Write their main five reasons. 6

Or, What do you mean by Seasonal Plants ? Describe any five important seasonal medicinal plants.