

MP BOARD QUESTION PAPER 2017

Science (M.P.) : Class X

Time : 3 Hours Max. Marks : 75

Q. 1. Fill in the blanks : $1 \times 5 = 5$

- (i) The radius of core of earth is km.
- (ii) Mixture of Harrah, Bahera and Amla is called
- (iii) is the biggest planet in the solar system.
- (iv) The writer of "Aryabhattachiya" thesis is
- (v) One horse power = Watt.

Q. 2. Choose the correct alternative : $1 \times 5 = 5$

- (i) Formation of curd is :
 - (a) Fast reaction (b) Slow reaction (c) Backward reaction (d) Forward reaction.
- (ii) The minimum distance vision for a healthy person is :
 - (a) 20 cm (b) 25 cm (c) 10 cm (d) 30 cm.
- (iii) S.I. Unit of electric current is :
 - (a) Kilowatt (b) Ampere (c) Ohm (d) Watt.
- (iv) Main component of biogas is :
 - (a) Methane (b). Butane (c) Propane (d) Ethane.
- (v) Lungs are located :
 - (a) In thoracic cavity (b) In abdominal cavity (c) Near intestine (d) Below pancreas.

Q. 3. Match the column : $1 \times 5 = 5$

- | `A' | `B' |
|------------------------|------------------------------------------------------|
| (i) Blood group "0" | (a) Formation of urea . |
| (ii) Xylem | (b) Sulphuric acid (H ₂ SO ₄) |
| (iii) Liver | (c) Cinnabar (HgS) |
| (iv) King of chemicals | (d) Water transport in plant |

- (v) Mercury (e) Universal donor
(f) Nitric acid (HNO₃).

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

- (i) What is Chromosome ?
(ii) Which vitamin is found in abundance in Amla ?
(iii) Write Valency of carbon.
(iv) What is Ore ?
(v) What is Polythene ?

Q. 5. Write the laws of Reflection. 2

Or, Write uses of convex lenses (any two)

Q. 6. What is electroplating ? 2

Or, What is meant by 'one ampere' ?

Q. 7. 'What is the common name of Indian Space Research Organization ? 2

Or, Write full name of INSAT.

Q. 8. What is fermentation ? 2

Or, Write the main uses of alcohol. (any two)

Q. 9. Explain Gravity separation method of ore. 3

Or, What is rusting ? Give chemical formula of rust.

Q. 10. Compare the physical properties of metals and non metals. 3

Or, What happens when : (Write chemical equation only)

- (i) Ammonia gas reacts with Hydrogen chloride (HCl)
(ii) Sodium reacts with Water.
(iii) Magnesium reacts with Oxygen.

Q. 11. What is Global warming ? Write main reasons of Global warming. 3

Or, What are the sources of noise pollution ? Write effects of noise pollution.

Q. 12. Write the medicinal importance of following plants : 3

(i) Tulsi, (ii) Neem, (iii) Bahera.

Or, Write the classification of medicinal plants.

Q. 13. Explain Simple Microscope with diagram. 4

Or, What is Myopia ? Give its reason. Explain with the help of a labelled ray diagram how it is corrected.

Q. 14. Draw a well labelled diagram of dry cell. 4

Or, A charge of 4 coulomb is brought from a point at 220 V to another point at 230V. Calculate the work done.

Q. 15. Write characteristic features of an ideal fuel. 4

Or, Draw labeled diagram of Wind mill and explain working principle.

Q. 16. Draw a labeled diagram of longitudinal section of flower. 4

Or, Explain the sex determination process in human by line diagram.

Q. 17. What is Soap ? Why are detergents better than soap ? Explain it. 4

Or, How is ozonide formed ?

Q. 18. Write difference between Acid and Base (any four) and give the name of one strong acid and one strong base. 5

Or, Write the name and formula of Bleaching powder and give four important uses of bleaching powder.

Q. 19. Write difference between photosynthesis and Respiration. 5

Or, What is liver ? Describe the functions of liver in human beings.

Q. 20. Write differences of lymph and blood (any five). 5

Or, What is Haemodialysis ? What are the reasons of Haemodialysis ? Explain.