

MP BOARD CLASS 10 SCIENCE PREVIOUS YEAR PAPER

R-224 (H/E)

Science - 2017

Time : 3 Hours]

Class : 10th

[M. M. : 75

Instructions : (i) All questions are compulsory. (ii) Question Nos. 1 to 4 are objective type. Each question carries $1 \times 5 = 5$ marks. Total marks are $5 \times 4 = 20$. (iii) Internal options are given in question Nos. 5 to 20. (iv) Marks of each question are indicated against it. (v) Answer questions Nos. 5 to 8 in about 30 words each. (vi) Answer questions Nos. 9 to 12 in about 75 words each. (vii) Answer questions Nos. 13 to 17 in about 120 word each. (viii) Answer questions Nos 18 to 20 in about 150 words each. (ix) Draw neat and clean labelled diagram wherever required.

1. Fill in the blanks:
=5

1 × 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.

2. Choose the correct alternative:

1 × 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

3. Match the column "A" with "B"

1 × 5 = 5

'A'

'B'

(i) Blood group "O"

(a) Formation of urea

(ii) Xylem

(b) Sulphuric Acid (H_2SO_4)

(iii) Liver

(c) Cinnabar (HgS)

(iv) King of chemicals

(d) Water transport in plant

(v) Mercury

(e) Universal donor

(f) Nitric acid (HNO_3)

4. Write the answer in one sentence each :

1 × 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?

5. Write the laws of Reflection.

2

(OR) Write uses of convex lenses. (any two)

6. What is electroplating? 2

(OR) What is meant by 'one ampere'?

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

(OR) Write full form of INSAT.

8. What is fermentation? 2

(OR) Write main uses of alcohol. (any two)

9. Explain Gravity separation method of ore. 3

(OR) What is rusting? Give chemical formula of rust.

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.

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.

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

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

(OR) Write the classification of medicinal plants.

13. Explain Simple Microscope with diagram. 3

(OR) What is Myopia? Give its reasons. Explain with the help of a labelled ray diagram how it is corrected.

14. Draw a well labelled diagram of a dry cell. 3
(OR) A charge of 4 coulomb is brought from a point at 220V to another point at 230 C calculate the work done.
15. Write a characteristic features of an ideal fuel. 4
(OR) Draw labelled digram of wind mill and explain the working principle.
16. Draw a labelled diagram of longtitudinal section of flower. 4
(OR) Explain the sex determination process in human by line diagram.
17. What is Soap? Why are detergents better than soap? Explain it. 4
(OR) How is ozonide formed?
18. Write difference between photosynthesis and Respiration. 5
(OR)Write the name and formula of Bleaching powder and give four important uses of bleaching powder.
19. Write difference between Photosynthesis and Respiration. 5
(OR) What is liver? Describe the functions of liver in human beings.
20. Write differences of lymph and blood. (any five).
(OR) What is Haemodialysis? What are the reasons of Haemodialysis? Explain.