

MP BOARD QUESTION PAPER 2015

Science (M.P.) : Class X

Time : 3 Hours Max. Marks : 75

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

- (i) Rusting of Iron is the example of _____ reaction.
- (ii) We can see the objects in the presence of _____
- (iii) Greater the current in the wire stronger will be the _____ produced.
- (iv) 1 horse power = _____ watt.
- (v) Coal is the _____ source of energy.

Ans. (i) Slow chemical reaction, (ii) Light, (iii) Magnetic field, (iv) 746, (v) Non-renewable.

Q. 2. Choose the correct alternative : 1 x 5 = 5

- (i) Rhizobium is found in :
(a) Maize root (b) Gram root
(c) Branch of a plant (d) Sugarcane root.
- (ii) The process of fusion of male gamete and female is called :
(a) Pollination (b) Fertilization (c) Cell maturation (d) Cell elongation.
- (iii) "Quick Silver" is called :
(a) Ag (b) Al (c) Hg (d) Au.
- (iv) How many chambers are there in the heart of human :
(a) Two (b) Three (c) Four (d) Five.
- (v) Excretory products by kidney is :
(a) Ammonia (b) CO₂ (c) Urine (d) Sweat.

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

Q. 3. Choose the correct match for Column 'A' from Column 'B' : 1 x 5 = 5

'A'

'B'

- (i) Titanium (a) Venus

- | | | |
|-------|----------------------|-------------------------|
| (ii) | Carbon | (b) Strategic metal |
| (iii) | Sound measuring unit | (c) Catenation capacity |
| (iv) | Ginger | (d) Sun |
| (v) | Morning star | (e) Bulb |
| | | (f) Rhizome |
| | | (g) Decibel |
| | | (h) Noise. |

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

Q. 4. Write the answer in one sentence each : $1 \times 5 = 5$

- (i) What are called Terrestrial planets ?
- (ii) What is the full form of IUPAC ?
- (iii) Write down the definition of Ductility.
- (iv) Where does the Ultra filtration process take place ?
- (v) Write the full name of ISRO.

Ans. (i) The innermost planets mercury, Venus and mars have some features in common with the earth and hence they are called terrestrial planets, (ii) International Union of pure and applied chemistry, (iii) The metals which can be drawn into wires are called ductile and this property of metals is called ductility, (iv) Bowman's capsule, (v) Space Research Organization.

Q. 5. What is the power of Lens ? 2

Or, Write the name of the lenses used in a compound microscope near object and eye.

Q. 6. What is electroplating ? 2

Or, Write Fleming's left hand rule.

Q. 7. What is a Functional Group ? 2

Or, What is Fehling's solution ?

Q. 8. Write two main characteristics of Rocket Fuel. 2

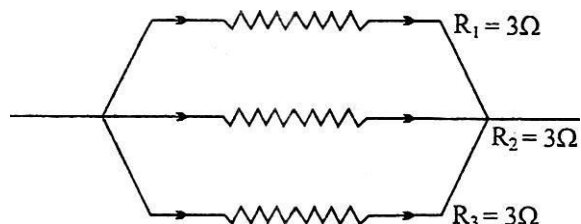
Or, What is Comet ?

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

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

Q. 10. An electric bulb is rated 200V-100W. Find the resistance of the bulb. 4

Or, Calculate the resultant resistance when three resistances of 3 ohm are connected in parallel ?



Q. 11 Write any four characteristics of an ideal fuel. 4

Or, Write any four benefits of using solar cooker.

Q. 12 Explain mendel's law of segregation. 4

Or, Draw neat and labeled diagram of female reproductive system of human.

Q. 13 Write the IUPAC name and structural formula of the first four member of alcohol homologous series. 4

Or, How cloth is cleaned with the help of detergents ?

Q. 14 Write five important aspects of chemical equilibrium. 5

Or, What is bleaching ? write the chemical name and two main uses of bleaching powder.

Q. 15 Write any five functions of Liver. 5

Or, The process of Kreb's cycle occurs in which organ ? Write its four features.

Q. 16 Draw a labeled diagram of excretory system of human. 5

Or, Describe the Blood groups.

Q. 17 Write any six chemical properties of metals. 6

Or, Write any six chemical properties of Non-Metals.

Q. 18 Describe following medicinal plants : 6

(i) Haldi (ii) Garlic (iii) Am la (iv) Jeera (v) methi (vi) Mahua.

Or, Describe the Biotic components of an Ecosystem.