

**MP BOARD CLASS 10 ENGLISH MEDIUM**  
**SAMPLE PAPERS SERIES**  
**CLASS 10 SCIENCE MODEL PAPER 1**  
**SECTION-A**

Q.1. Choose the correct answer:

1. Chemically rust is  
(a) Hydrated ferrous oxide (b) Only ferric oxide (c) Hydrated ferric oxide (d) None of these
2. Which of the following has maximum nonmetallic character?  
(a) F (b) Br (c) Cl (d) I
3. Transfer of chemical's information from one neuron to another is facilitated by  
(a) Synapse (b) Nerve ending (c) Axon (d) Cell body
4. Which of the following materials cannot be used to make a lens?  
(a) Water (b) Glass (c) Plastic (d) Clay
5. Ganga Action Plan come about in  
(a) 1985 (b) 1998 (c) 1978 (d) 1973

Q.2. Fill in the blanks:

- (i) All acids produce.....ions in water.
- (ii) Life on earth depends on.....based molecule.
- (iii) .....Co-ordination is seen in both plants and animals.
- (iv) Von Baer is called the father of.....
- (v) ..... is delicate membrane having:

Q.3. Match the columns:

- |                                  |                      |
|----------------------------------|----------------------|
| (A)                              | (B)                  |
| (i) Acetic Acid                  | (a) Pitcher plant    |
| (ii) Insectivorous plants        | (b) Ampere           |
| (iii) Wings of bat birds         | (c) Vinegar          |
| (iv) SI unit of electric current | (d) Bacteria         |
| (v) Decomposer                   | (e) Analogous organs |

Q.4. Answer in one word /one sentence: 5

- (i) Name two metals which are found in nature in free state.
- (ii) Which type of nutrients method is found in sandal?
- (iii) Which colour has maximum wavelength?
- (iv) For three resistors what will be not voltage?
- (v). Which factors of hole in ozone layer?

**SECTION-B**

Q.5. What is the colour of ferrous sulphate before and after heating?

**OR** What is precipitation reaction? Explain with examples.

Q.6. Why do you think noble gases are placed in a separate group?

**OR** How could you modern periodic table remove various anomalies of Mendeleev's Periodic Table.

Q.7. How is the process of pollination different from fertilization?

**OR** What does the male reproductive system consist of in human beings?

Q.8. Why are the small numbers of surviving tiger cause of worry from the point of view of genetic?

**OR** What is classification?

Q.9. What happened when convex lens focus at paper in sunlight?

**OR** Why do we prefer a convex mirror as a rearview mirror in vehicles?

Q.10. Describe oxidation and reduction in terms of gain or loss of oxygen with two examples. 3.

**OR** Why is photosynthesis considered as endothermic reaction?

Q.11. Why is normal eye not able to see clearly the object placed closer than 25cm? S3

**OR** State the function of each of the following parts of the human eye.

(i) Cornea, (ii) Iris, (iii) Pupil, (iv) Retina.

Q.12. Write a short note on galvanometer. 3

**OR** How does a solenoid behave like a magnet? Can you determine the north and south poles of a current-carrying solenoid with the help of a bar magnet.

Q.13. In what ways can be magnitude of the induced current be increased?

**OR** What precautions should be taken to avoid the overloading of domestic electrical circuit?

Q.14. Why are we looking at alternate sources of energy?

**OR** Why is charcoal considered a better fuel than wood? What are the disadvantages of converting wood into charcoal?

Q.15. Give the properties and uses of bleaching powder

**OR** Give one example for each of the following salts chloride salts, carbonate salts and sulphate salts.

Q.16. What is an homologous series? Explain with an example.

**OR** Explain the mechanism of cleaning action of soaps.

Q.17. How is the amount of urine produced regulated?

**OR** Compare the functioning of alveoli in the lungs and nephrons in the kidneys with respect to their structure and functioning.

Q.18. What is the function of receptors in our body? Think of situations where receptors do not work properly. What problems are likely to arise?

**OR** What are tropic movements?

Q.19. Give difference between conductors and insulators.

**OR** Several electric bulb designed to be used on a 220 V Electric Supply Line, are rated 10 W. How many names can be connected in parallel to each other across the two wires of 220 V line if the maximum available current is 5 A?

Q.20. Name two metals which will displace hydrogen from dilute acids and two metals which will not

**OR** Give reasons:

(a) Platinum, Gold and Silver are used to make Jewelry.

(b) Sodium, potassium and lithium are stored under oil.

(c) Aluminum is highly reactive metal, yet it is used to make utensils for cooking.

(d) Carbonate and sulphate ores are usually converted into oxide during the process of extraction.

Q.21. Draw labeled diagram of the longitudinal section of flower?

**OR** What are the different methods of contraception?

Q.22. An object is placed at a distance of 10 cm from a convex mirror of a focal length of 15 cm. Find the position and nature of the image.

**OR** What do you understand by the law of refraction.