

10 th CBSE Batch :	MAHESH TUTORIALS SUBJECT : SCIENCE & TECHNOLOGY Chapter : 1, 2, 3, 6, 7 [Upto Plants], 12, 13, 14 OR 10 Question Paper	Test - Date: Marks : 60 Time: 2 Hrs
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Q : 1	Answer the following questions : [1 Marks] 1. What is the general name of the Chemicals which are added to fat and oil containing foods to prevent the development of rancidity ? 2. Name four important nutrients present in our diets ? 3. The unit of potential difference is : (a) volt (b) ohm (c) ampere (d) faraday 4. What is the direction of magnetic field lines (i) inside a magnet? (ii) outside a magnet? 5. What is biomass ? Give examples. <p style="text-align: center;">OR</p> 5. Define 1 dioptre power of a lens.	05
Q : 2	Answer the following questions : [2 Marks] 6. Explain why, respiration is considered an exothermic reaction ? 7. Name the type of respiration in which the end products are. a) C ₂ H ₅ OH and CO ₂ b) CO ₂ and H ₂ O c) Lactic acid 8. How does chemical coordination occur in plants ? 9. Distinguish between conductors and insulators. 10. What is an electromagnet? 11. State the advantages of biogas. <p style="text-align: center;">OR</p> 11. Why do dentists use a concave mirror?	12
Q : 3	Answer the following questions : [3 Marks] 12. What happens when silver nitrate solution is added to sodium chloride solution ? a) Write the equation for the reaction that takes place. b) Name the type of reaction involved. 13. Why should curd and sour substances not be kept in brass and copper vessels? 14. What are amphoteric oxides? Give equation. 15. Describe the process of respiration in fish. 16. Describe the functions of phytohormones ? 17. How much work is done in moving a charge of magnitude 3 C across two points having a potential difference of 12 V ?	18
Q : 4	Answer the following questions : [5 Marks] 18. Write word equations and then balance equations for the reaction taking place	25

when :

- i) dilute sulphuric acid reacts with zinc granules
- ii) dilute hydrochloric acid reacts with magnesium ribbon.
- iii) dilute sulphuric acid reacts with aluminium powder.
- iv) dilute sulphuric acid reacts with iron filings.

19. Give reasons for :

- (a) Ionic compounds have high melting points.
- (b) Ionic solids do not conduct electricity.
- (c) Ionic compounds are soluble in water.
- (d) Ionic compounds do not conduct electricity in the solid state but do so in aqueous solution or molten state.
- (e) NaCl solution gives a precipitate of AgCl with AgNO₃ solution but CCl₄ does not ?

20. Why do tendrils coil around hard rough objects?

21. Along with the diagram, explain the construction and working of an electric motor.

22. Distinguish between Nuclear fusion and Nuclear fission.

OR

22. Draw a ray diagram to find the position of the image if :

- (i) Object is at infinity for a concave lens.
- (ii) Object between $2F_1$ and F_1 of a concave lens.

★★★★ *Best of Luck* ★★★★★