

CARMEL CONVENT SCHOOL, CHANDIGARH
UNIT TEST – 1 MAY 2025
SCIENCE

Class: 10
Date: 13.05.2025

MM: 20
Time: 40 mins

Biology (6)

1. Gastric Glands secrete
 - a. Pepsin & Insulin
 - b. Mucous and Renin
 - c. HCl, amylase & Pepsin
 - d. Mucous, HCl & Pepsin(1)
2.
 - a. Write a complete balanced equation of Photosynthesis.
 - b. What precautions are taken when a leaf is boiled in alcohol, while performing a starch test?(2)
3. a. Name the parts of the human digestive system where:
 - (i) Digestion begins
 - (ii) Faeces are formed
 - (iii) Digestion is completedb. What is the role of bile in digestion?(3)

Physics (7)

- 1 Draw a ray diagram to show the principal focus of a Convex Mirror (1)
- 2 List two possible ways in which a concave mirror can produce magnified image of an object placed in front of it. State the difference, if any, between these two images by drawing ray diagrams. (1, 2)
- 3 The linear magnification produced by a spherical mirror is $+1/3$. Analyze this value, state the
 - i) type of mirror
 - ii) position of the object with respect of the pole of the mirror. Draw ray diagram to justify your answer.(3)

Chemistry (7)

- 1 Balance the following word equation. (1)
lead nitrate reacts with potassium iodide to give lead iodide and potassium nitrate
- 2 Explain why respiration is an exothermic process? (1)
- 3 A Solution of a Substance X is Used for White Washing
 - (a) Name the Substance X and Write its Formula
 - (b) Write the Reaction of the Substance X named with Water(2)
- 4 Why the gas collected during decomposition of water in one of the test tubes is twice as much as in the other? Which gas is this and how do we test this gas? (3)

END