

**GREENLAWNS HIGH SCHOOL**  
**FINAL EXAMINATION 2021**

**SUBJECT: BIOLOGY**  
**TIME: 1 HOUR**

**CLASS: IX C**  
**MARKS : 40**

- **PLEASE NOTE: All answers have to be written on composition sheets only.**
  - On each side of the composition sheet mention your name, roll no,
  - Std and div.
  - The answer sheets have to be converted into a clear pdf and uploaded on Microsoft teams.
  - Rename the pdf as your 'Roll no Name Biology FE

**Q1. Fill in the blanks:** **( 5 marks)**

1. Germination in any plant ends with the formation of a \_\_\_\_\_.
2. \_\_\_\_\_ is the deficiency of oxygen reaching the tissues.
3. A structural protein \_\_\_\_\_ is found in nails, hair, horns , hooves and silk.
4. \_\_\_\_\_ is a long flat bone lying the middle of the front part of the chest.
5. Glycolysis occurs in the \_\_\_\_\_.

**Q2. State whether the following statements are true or false. If false, correct the first or the last word only.** **(5 marks)**

1. In hypogeal germination, epicotyl elongates.
2. The hip pelvic girdle is a large trough shaped part formed by two hip bones that are joined medially to the sternum.
3. The lungs are a pair of spongy elastic organs.
4. Colouration of the skin is due to a pigment Serotonin.
5. The knee joint is an example of synovial joint.

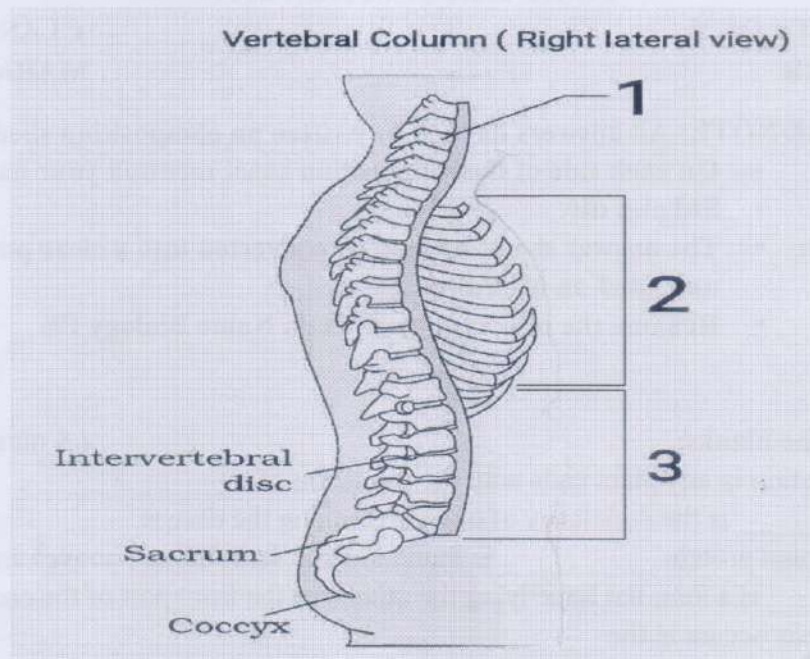
**Q3. Name the following:** **(5 marks)**

1. Another term used for Leukoderma.
2. A condition in which the blood becomes more venous by accumulation of more carbon dioxide and the oxygen supply is diminished.
3. The longest and the strongest bone in the human body.
4. The type of germination in which cotyledons are pushed above the ground.
5. Mature ovule after fertilization.

**Q4 Differentiate between the following pairs:** **(5 marks)**

1. Meibomian glands and Ceruminous glands (Location)
2. True ribs and Floating ribs (Rib numbers)
3. Inspiration and Expiration (Definition)
4. Voluntary muscles and Involuntary Muscles ( Mode of action of the muscles)
5. Aerobic respiration and anaerobic respiration. (End products)

Q5. A) Observe the given diagram carefully and answer the questions that follow: (6 marks)



1. Label group 1, group 2 and group 3. How many vertebral bones are found in group 1, group 2 and group 3?
2. Why is the vertebral column curved?
3. How many bones are present in total in the vertebral column?
4. The vertebral column forms a part of the axial skeleton. Which other bones are categorized under axial skeleton?

**B) Answer the following questions: ( 4 marks)**

1. Name and explain any two common problems related to sebaceous glands.
2. The carbon dioxide from the tissue is transported to the lungs by the blood by means of veins in two ways. List them.

Q6 A. Observe the given diagram and answer the questions that follow: (6 marks)

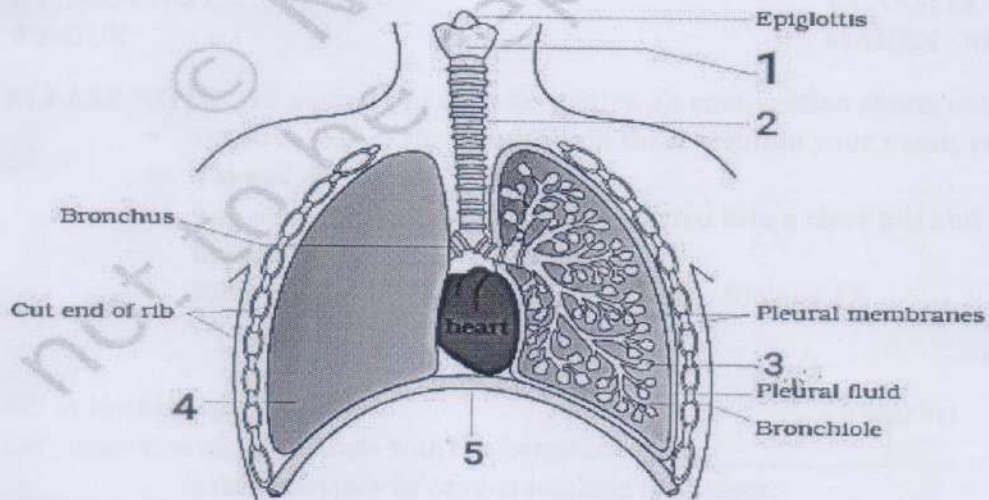


Figure 17.1 Diagrammatic view of human respiratory system (Sectional view of the left lung is also shown)

1. Label parts 1, 2, 3, 4 and 5.
2. The walls of part 3 are extremely thin and moist. Why?
3. Why is the left lung slightly smaller?
4. The walls of part 2 are strengthened by C shaped rings of cartilage. How do the rings help?

**B. Give scientific reasons for the following: (4 marks)**

1. Seeds sown very deep in fail to germinate.
2. Our skin pigment is compared to an umbrella.