GRADE 10 END - TERM TWO 2026 ASSESSMENT

SUBJECT: BIOLOGY

NAME_____. **ADM NO**_____.

CLASS_____.

DATE_____.

Answer all questions in the spaces provided

1. Biology is important in many fields of life.

a) Give three applications of Biology in agriculture. (3 marks)

b) Explain how Biology contributes to environmental conservation. (2 marks)

2. A student observed that a bean seedling increased from 5 cm to 15 cm in height after two weeks.

a. Which characteristic of living things is demonstrated? (1 mark)

3. Draw a plant cell and label three parts. (4 marks)

4. Distinguish between a plant cell and an animal cell. (2 marks)

5. . Explain the functions of the following cell structures: (4 marks)
   i. Nucleus

   ii. Cell membrane

   iii. Vacuole

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   iv. Mitochondrion

6. Explain how the structure of a root hair cell enables it to perform its function efficiently. (3 marks)

7. A learner ate a meal containing maize, beans and avocado.
   Identify the main nutrient provided by each food item and state one function of that nutrient in the body. (3 marks)

Food item	Main nutrient	Function

8. A student carried out tests on four food samples labelled A, B, C and D. The observations are shown below.

Sample	Test Used	Observation	Food substance present
A	Iodine solution	Blue-black colour formed	
B	Benedict's solution + heating	Brick-red precipitate formed	
C	Biuret solution	Purple colour formed	
D	Ethanol emulsion test	Turbid white solution formed	

a) Name the food substance present in each sample. (4 marks)

b) Explain why heating was necessary in sample B. (1marks)

c) State the importance of the food substance found in sample C in the human body. (3 marks)

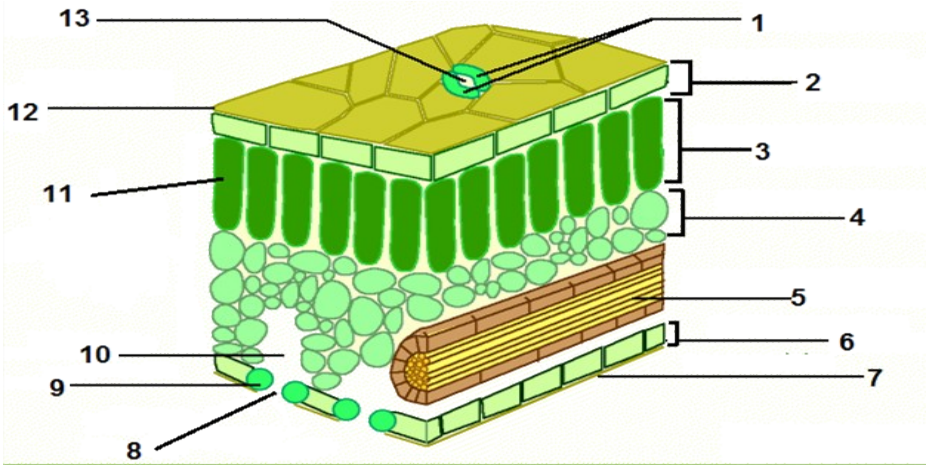
d) A learner mistakenly added iodine solution to sample D. Predict the observation and explain your answer. (2 marks)

9. A patient was advised to reduce intake of foods that test positive with Benedict's solution.

a) Which type of nutrient was the patient advised to reduce? (1 mark)

b) Suggest two foods the patient should avoid. (2 marks

10. The diagram below shows a simplified cross-section of a plant leaf.

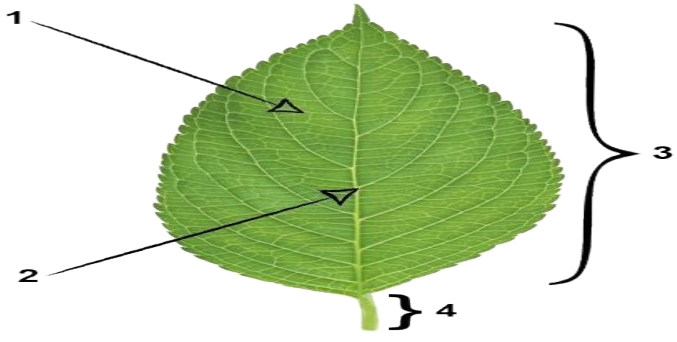


a) Identify the parts labelled 2, 3, 4, and 9 in the diagram. (4 marks

b) State the primary function of part 3 in relation to photosynthesis. (2 marks

c) What is the role of veins in the leaf in supporting photosynthesis? (3 marks)

11. During a biology lesson, a student is observing a fresh green leaf.



a) What is the name of the part labelled1,2,3$ 4? (4mrks)

1. 3.

2. 4.

b) Give the importance of part labelled 3 and 4
(2 marks)
Part 3

Part 4