

MARCH 2022
EBS 103
GENERAL BIOLOGY
30 MINUTES

Candidate's Index Number:

Signature:

UNIVERSITY OF CAPE COAST
COLLEGE OF EDUCATION STUDIES
SCHOOL OF EDUCATIONAL DEVELOPMENT AND OUTREACH
INSTITUTE OF EDUCATION

COLLEGES OF EDUCATION
FOUR-YEAR BACHELOR OF EDUCATION (B.ED)
FIRST YEAR, FIRST SEMESTER MID-SEMESTER QUIZ, MARCH 2022

MARCH 14, 2022

GENERAL BIOLOGY

8:00 AM – 8:30 AM

Answer ALL the questions.

For items 1 to 20, each stem is followed by four options lettered A to D. Read each item carefully and circle the letter of the correct or best option.

1. The presence of is the evidence that photosynthesis has taken place in a green leaf.
A. fats and oils
B. glucose
C. proteins
D. starch
2. The process of photosynthesis can be described chemically by the equation
A. $6\text{C}_2\text{O}_2 + 6\text{H}_2\text{O}_2 + \text{light energy} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$
B. $6\text{CO}_2 + 6\text{H}_2\text{O} + \text{light energy} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$
C. $6\text{CO}_2 + 6\text{H}_2\text{O}_2 + \text{light energy} \rightarrow \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$
D. $\text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2 \rightarrow 6\text{CO}_2 + 6\text{H}_2\text{O} + \text{Energy}$
3. In testing for the presence of carbon dioxide for photosynthesis, why must a leaf be kept in the dark for at least two days? To
A. destarch the leaf.
B. destroy pathogens in it.
C. remove the carbon dioxide.
D. remove the chlorophyll.
4. Flowers with both Androecium and Gynoecium are called
A. anthers.
B. stamens.
C. bisexual.
D. unisexual.

5. What plant part produces pollens?
 - A. Anther.
 - B. Ovary.
 - C. Stigma.
 - D. Style.

6. Why do flowers have such colourful petals?
 - A. So you can see them at night.
 - B. To attract animals for pollination.
 - C. To scare away predators.
 - D. To trap insect.

7. All the following groups of vertebrates have homodont dentition **except**
 - A. amphibians.
 - B. fishes.
 - C. mammals.
 - D. reptile.

8. A flowering plant with fibrous root system is likely to also have
 - A. distinct petiole.
 - B. floral parts of four or fives.
 - C. net venation.
 - D. parallel venation.

9. In mammals, the first set of teeth that get removed later in life is known as
 - A. early teeth.
 - B. milk teeth.
 - C. permanent teeth.
 - D. preset teeth.

10. What form do humans store Carbohydrates?
 - A. Glucose.
 - B. Glycogen.
 - C. Lactose.
 - D. Starch.

11. Which of the following teeth are used for cutting, gnawing, holding and pulling food?
 - A. Canines.
 - B. Incisors.
 - C. Molars.
 - D. Premolars.

12. The enzyme saliva amylase converts
 - A. maltose into glucose.
 - B. protein into peptones.
 - C. starch into maltose.
 - D. sucrose into glucose.

13. The lining of the stomach wall is protected from actions of HCl and pepsin by a layer formed by
- A. mucus.
 - B. pepsin.
 - C. pepsinogen.
 - D. rennin.
14. The fingerlike projections on the inner surface of the small intestine are called
- A. enzymes.
 - B. glands.
 - C. hormones.
 - D. villi.
15. A child suffering from rickets is probably lacking
- A. Calcium.
 - B. Phosphorus.
 - C. Vitamin C.
 - D. Vitamin D.
16. Which of the following teeth are used for cutting, gnawing, holding and pulling food?
- A. Canines.
 - B. Incisors.
 - C. Molars.
 - D. Premolars.
17. *Hibiscus rosa* has all its petals fused together at the base. The flower could best be described as
- A. gamo petalous.
 - B. gamo sepalous.
 - C. poly petalous.
 - D. poly sepalous.
18. Eating diets rich in protein would help prevent in children
- A. goiter
 - B. kwashiorkor
 - C. rickets
 - D. scurvy
19. The bone-like material which helps to fix the root of a human tooth into the socket of the jawbone is called
- A. cementum.
 - B. gum.
 - C. nerve cells.
 - D. periodontal fibre.
20. Which of the following enzymes is found in the stomach of mammals?
- A. Amylase.
 - B. Lipase.
 - C. Pepsin.
 - D. Ptyalin.

