

Cantonment Public School & College, Saidpur

Home Test-1/2020

Class: XI (EV)

Subject: Biology

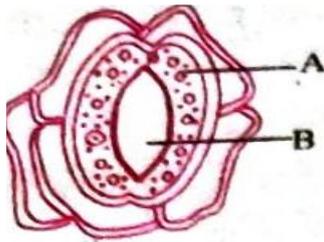
Time: 40 minutes

Full Marks: 20

[N.B. – Answer all the questions. Each question carries 1 Mark.]

1. In which reaction of the following light energy convert into chemical energy?
 - a. Aerobic respiration
 - b. Glycolysis
 - c. Photosynthesis
 - d. Anaerobic respiration
2. Which one is CO₂ acceptor in Hatch and Slack cycle?
 - a. Oxaloacetate
 - b. Ribulose
 - c. Rubisco
 - d. Phosphoenol pyruvate

Observe the following stem and answer the question no: 3 and 4.

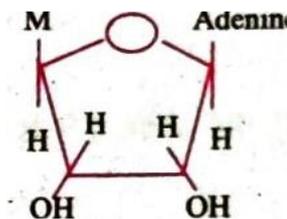


3. What is the name of the 'A' marked part?
 - a. Guard cell
 - b. Accessory cell
 - c. Meristematic cell
 - d. Gland cell
4. Function of the 'B' marked structure of the diagram-
 - i. Exchange of gases
 - ii. Keeps plant cool
 - iii. Participate in respiration

Which one is correct?

 - a) i & ii
 - b) i & iii
 - c) ii & iii
 - d) i, ii & iii

Observe the reaction and answer the question.



5. What will be in 'M' position of above figure to make it ATP?
 - a. 2H₃PO₄
 - b. 3H₃PO₄
 - c. 2H₂PO₃
 - d. 3H₂OP₃

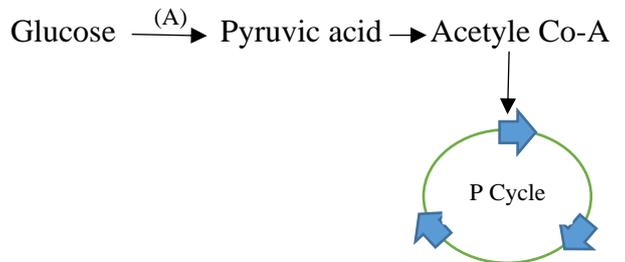
Observe the reaction and answer the question.



6. Which enzyme acts on 'A' in the equation?
 - a. Mutase
 - b. Kinase
 - c. Rubisco
 - d. Isomerase

7. Which ion is absorbed very fast?
 - a. K⁺
 - b. Ca⁺⁺
 - c. SO₄⁻
 - d. Na⁺

Observe the reaction and answer the question no. 8 and 9.

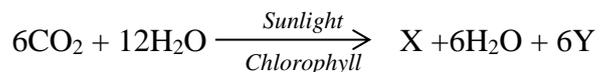


8. How many carbon atoms is present in Acetyl Co-A of above stem?
 - a. 2
 - b. 3
 - c. 4
 - d. 5
9. In 'P' cycle of stem-
 - i. 1st product is citric acid
 - ii. Re-synthesis compound is oxaloacetic acid
 - iii. Cycle is occurred in cytoplasm

Which one is correct?

 - a) i & ii
 - b) i & iii
 - c) ii & iii
 - d) i, ii & iii

Observe the reaction and answer the question.



10. Which is applicable for 'Y' in the reaction given in stem?
 - i. Produced as a byproduct
 - ii. Produced due to photolysis of water
 - iii. Produced in light dependent phase

Which one is correct?

 - a) i & ii
 - b) i & iii
 - c) ii & iii
 - d) i, ii & iii
11. In which part of nephron ultrafiltration happens?
 - a. Bowman's capsule
 - b. Glomerulus
 - c. Henle's loop
 - d. Urinary bladder
12. How much cubic centimeter urine is produced in human body per minute?
 - a. 1
 - b. 2
 - c. 3
 - d. 4
13. Kidney-
 - i. regulates the blood pressure
 - ii. stores excess hormone
 - iii. eliminates metabolic waste

Which one is correct?

 - a. i and ii
 - b. ii and iii
 - c. i and iii
 - d. i, ii and iii

14. Where is urea produced?
a. Kidney b. Nephron
c. Brain d. Liver

15. Which hormone is responsible for osmoregulation in human body?
a. FSH b. ADH
c. TSH d. EDH

Read the following passage and answer the question 16 and 17.

Protein enriched food after digestion transforms into amino acid and the excess amino acid is stored in liver.

16. The mentioned liver produces-
i. keto acid ii. urea iii. ammonia
Which one is correct?

- a. i and ii b. ii and iii
c. i and iii d. i, ii and iii

17. Features of the mentioned protein enriched food are-
i. protein breaks down into amino acid
ii. amino acid breaks in deamination
iii. amino acid breaks due to deaminase enzyme

Which one is correct?

- a. i and ii b. ii and iii
c. i and iii d. i, ii and iii

18. After kidney failure-
i. K^+ increases
ii. Heart may stop working
iii. excess urination

Which one is correct?

- a. i and ii b. ii and iii
c. i and iii d. i, ii and iii

19. Which of the following is absent in glomerulus filtrate?

- a. Protein b. Glucose
c. Ion d. Urea

20. Which of the following secretes from the proximal convoluted tubule?

- a. Creatinine b. K^+
c. Choline d. Histamine

