

Paper: Biology

Total Marks: _____

Month Test: 3rd Term

Obt. Marks: _____

Theme/Unit: _____

Grand Total: _____

Objective/Subjective:

ID: _____

Time: _____

Name: _____

class: 9th

Section: _____



Encircle the correct answer

12

1. Chlorophyll pigment absorbs maximum light in wavelengths of ?

a.Green and red

c.Green and blue

b.Green only

d.Red and blue

2. By-Product of Photosynthesis is

a.Oxygen

C.Carbon dioxide

b.None of these

d.Glucose

3. The clusters of photosynthetic pigments are called ?

a.Thylakoids

c.Photosystems

b.Carotenoids

d. Chlorophyll 'a' & 'b'

4. A ribosome sugar has carbon atoms ?

A.7

B.6

C.4

D.5

5. Pyruvic acid is produced in _____ respiration ?

A.Aeorbic

C.Both aerobic and anaerobic

B .Anaerobic

D.None of these

6. Fermenting powers of bacteria are used in making ?

A.Cheese and yogurt

C.Cheese

B.Soya sauce

D.Bread

7. Who used the term enzyme first time ?

A.T.H. Morgan

C.W- Flemming

B.Winhelm kuhne

D.Oscar Hertwig

8. An enzyme, which breaks down starch is ?

A.Protease

B.Lipase

C.Amylase

D.Tripsn

9. When we add more substrate to an already occurring enzymatic reaction and there is no increase in the rate of reaction, what would you predict ?

A.More substrate acted as inhibitor

B .The enzyme molecules have denatured

C.More substrate has disturbed the pH of the medium

D.All active sites have been occupied by substrate molecules

10. Which of these can enter into krebs cycle ?

A.Acetyl Co.A

C.Glucose

B.Pyruvic acid

D.Citric acid

11. IN dark reaction, first of all CO₂ combines with ?

A.5-Carbon compound

C.3-Carbon compound

B.6-Carbon compound

D.Already present glucose

12. ATP molecule was discovered by?

A.Calvin

C.Karl Lohmann

B.Hans krebs

D.Fritz Lipmann

Short answers

30

1. What are inhibitors and activators?
2. What is glycolysis write its equation?
3. Difference between photosynthesis and respiration?
4. Difference between aerobic and anaerobic respiration?
5. What is electrons transport chain?
6. What is NAD⁺ and FAD⁺?
7. Define enzyme?
8. What is activation energy?
9. Write down factors that affect the enzyme activity just write names?
10. How substrate concentration affect enzyme activity?
11. What is lock and key model?
12. What is induce fit model?
13. What is z scheme?
14. How pyruvic acid enter into mitochondria?
15. What are prosthetics group and cofactor?

Long questions 33

1. A. Draw dark reaction cycle?

5

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|---|---|
| B.enlist features of light reaction? | 6 |
| 2. A. Draw energy budget of cell? | 5 |
| B.importance of fermentation? | 6 |
| 3. A. Explain specificity of enzyme? | 5 |
| B.write any 4 characteristics of biocatalyst? | 6 |