18002122

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Reg. No.....

Name.....

M.Sc. DEGREE (C.S.S.) EXAMINATION, DECEMBER 2018

First Semester

Faculty of Science

Branch VIII : Zoology

ZY 1C T03—BIOCHEMISTRY

(2012 Admission onwards)

Time : Three Hours

Maximum Weight : 30

Section I (Short Answer Type Questions)

Answer any **ten** *out of twelve.*
Weight 1 *each.*

1. A DNA.
2. Iso-electric point of amino acid.
3. Osazone formation.
4. Optical isomerism.
5. Ribozymes.
6. Fatty acid synthetase.
7. Suicide inhibition.
8. Factors influencing enzyme action.
9. Saponification number.
10. Name a cyclic fatty acid and comment on.
11. Comment on glycolipids.
12. Alpha oxidation.

(10 × 1 = 10)

Turn over

Section II (Short Essay Type Questions)

Answer any **five** *out of eight.*
Weight 2 *each.*

13. Structures of cellobios and maltose and explain the glycosidic bonds in them.
14. Explain the importance of enzyme kinetic studies.
15. Explain the degradation of purines.
16. Explain the pentose phosphate pathway.
17. Explain the effect of substrate concentration on enzyme activity.
18. Explain the metabolism of ketone bodies.
19. Describe the biochemistry of prostaglandins and explain the biological function.
20. What is meant by enzyme specificity ? Explain.

(5 × 2 = 10)

Section III (Long Essay Type Questions)

Answer any **two** *out of three.*
Weight 5 *each.*

21. Describe the classification of enzymes using suitable examples.
22. Explain the classification of aminoacids with suitable examples.
23. Explain the HMP pathway and mention its significance.

(2 × 5 = 10)