

E 2949

(Pages : 2)

Reg. No.....

Name.....

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, APRIL 2022

Fifth Semester

Core Course—BIOCHEMISTRY, PHYSIOLOGY AND ENDOCRINOLOGY

(Common for B.Sc Zoology Model I, Model II, B.Sc Industrial Microbiology and Zoology)

[2013–2016 Admissions]

Time : Three Hours

Maximum Marks : 60

Part A

Answer all questions.

Each question carries 1 mark.

1. Nephrosis and nephritis.
2. Acromegaly.
3. Co-enzyme.
4. Haldane effect.
5. Hormone receptors.
6. Food adulteration.
7. Haemolysis.
8. Rigor mortis.

(8 × 1 = 8)

Part B

Answer any six questions.

Answer in one paragraph each.

Each question carries 2 marks.

9. What is beta oxidation?
10. Comment on Gluconeogenesis.
11. Explain the mechanism of enzyme action.
12. What is thrombosis?
13. What is meant by refractory period?
14. What is the significance of fasting?
15. Comment on EEG.

Turn over

16. Write on any two respiratory disorders.
17. What is meant by enzyme activation?
18. What are neurotransmitters?

(6 × 2 = 12)

Part C

*Answer any four questions.
Answer in one page each.
Each question carries 4 marks.*

19. Explain Glycolysis.
20. Explain the mechanism of enzyme action.
21. Explain the role of endocrine secretions of thyroid.
22. With a suitable diagram explain the structure of a striated muscle.
23. Explain Citric acid cycle.
24. Explain the endocrine feedback mechanism with a suitable example.

(4 × 4 = 16)

Part D

*Answer any two questions.
Answer should not exceed four pages.
Each question carries 12 marks.*

25. Explain urea cycle in detail.
26. Briefly explain protein metabolism.
27. Explain the mechanism of muscle contraction and relaxation.
28. Describe muscular, respiratory and cardiovascular changes during exercise.

(2 × 12 = 24)