QP CODE: 21101638

Reg No : ....

Name : ....

B.Sc DEGREE (CBCS) SPECIAL SUPPLEMENTARY EXAMINATION, JULY 2021

Fifth Semester

CORE COURSE - ZY5CRT08 - HUMAN PHYSIOLOGY, BIOCHEMISTRY & ENDOCRINOLOGY

Common for B.Sc Zoology Model I, B.Sc Zoology Model II Aquaculture, B.Sc Zoology Model II Food Microbiology, B.Sc Zoology Model II Medical Microbiology, B.Sc Biological Techniques and Specimen Preparation Model III & B.Sc Zoology and Industrial Microbiology Model III Double Main

2018 Admission Only

B48EDCFB

Time: 3 Hours

Max. Marks : 60

Part A

*Answer any **ten** questions.*

*Each question carries **1** mark.*

1. Define malnutrition.

2. What is Kwashiokor?

3. Name the enzyme involved in carbon dioxide transport.

4. What is oxygen therapy?

5. What is Glomerulus ?

6. What is Glomerular filtrate ?

7. Name the neuronal disorder which involve a difficulty in reading and writing.

8. What is oxygen debt?

9. Differentiate between monosaccharides and polysaccharides.

10. Draw the basic structure of an amino acid.

11. What is oxidative phosphorylation?

12. Name the hormones which regulate normal plasma calcium level.

(10×1=10)

Answer any six questions.

Each question carries 5 marks.

13. Describe the digestion of fat in man.

14. Give an account on respiratory pigments.

15. What is Thrombosis? Mention different types of thrombosis.

16. Describe the hormonal rgulation of kidney functions .

17. Explain the process of Dialysis.

18. Explain the mechanism of propagation of action potential along a nerve fiber.

19. List the functions of fat soluble vitamins. Mention the diseases caused by deficiencies of fat soluble vitamins.

20. Describe the chemical nature of enzymes. Write an account on coenzymes.

21. What are the significance of Protein metabolic reactions?

(6×5=30)

Part C

Answer any two questions.

Each question carries 10 marks.

22. Write an essay on the molecular mechanism of blood coagulation.

23. Describe the ultrastructure of vertebrate skeletal muscle.

24. Explain the mechanism of muscle contraction.

25. Describe Beta-oxidation of fatty acids.

(2×10=20)