

Total No. of Questions – 10]  
(2123)

[Total Pages : 3

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**M.Sc. (Zoology) CBS IIIrd Semester  
Examination**

**ANIMAL PHYSIOLOGY**

Paper – MZOO-302

Time : Three Hours]

[Maximum Marks : 40

*The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.*

**Note :** Attempt five questions. All questions carry equal marks.  
Support your answer with suitable diagrams wherever needed.

1. (a) Explain the components of vitamin B complex. Discuss their role played in body and deficiency disease.
- (b) Describe the histophysiology of mammalian ovary.

(4+4=8)

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2. What is body fluid? Discuss their types, importance and regulation in detail. 8

3. Describe in detail the transport of O<sub>2</sub> and CO<sub>2</sub> in blood. 8

4. Explain any two of the following:

- (a) Role of kidneys in regulation of acid-base balance.
- (b) Ultrastructure of a skeletal muscle.
- (c) Hormones secreted by testis. (4+4=8)

5. Explain the physiology of digestion of carbohydrates and proteins. 8

6. Give brief account (any two) about the following:

- (a) Muscles fatigue.
- (b) Carbon monoxide poisoning.
- (c) Hormones secreted by pancreas. (4+4=8)

7. Give an account of the counter current mechanism of urine concentration. 8

8. Differentiate between any two of the following:

- (a) Smooth and cardiac muscles.

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(b) Vascular distensibility and vascular compliance. (4+4=8)

9. Discuss in detail the physiological adaptations in response to deep sea environment. 8

10. What is blood pressure? How is it measured? Explain in detail its regulation. 8

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