

D 50760

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Name.....

Reg. No.....

FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2013

(UG - CCSS)

Zoology—Core Course

Z05 B11—BIOCHEMISTRY, PHYSIOLOGY AND ENDOCRINOLOGY

Time : Three Hours

Maximum : 30 Weightage

*(Answer may be written either in English or in Malayalam.
Give illustrations wherever necessary.)*

I. Answer all twelve questions. Each question carries 0.25 weightage :

A. Objective type question :

1 Blood cell count is taken by :

- (a) Haemocytometer. (b) Haemoglobinometer.
(c) Sphygmomanometer. (d) Electrocardiograph.

2 Which blood group is called Universal recipient ?

- (a) A Group. (b) B Group.
(c) AB Group. (d) O Group.

3 Which one is most soluble in water ?

- (a) Urea. (b) Uric acid.
(c) Ammonia. (d) Cephalin.

4 Electrical activity of brain is recorded by :

- (a) CT. (b) EEG.
(c) ECG. (d) MRI.

B. Match the following :

- 5 Enzyme precursor (a) Haemophilia.
6 Glucose from non carbohydrate source (b) Zymogens.
7 Bleeder's disease (c) Glycogenesis.
8 Voluntary muscle (d) Gluconeogenesis.
(e) Smooth muscle.
(f) Skeletal muscle.

Turn over

C Fill up the blanks :

- 9 A substance which speeds up a chemical reaction but remains unchanged is called _____.
- 10 The condition in which a Muscle loses its power of contraction and becomes relaxed and flabby is called _____.
- 11 Islets of Langerhans secrete _____.
- 12 The neuron that receives the impulse from the synaptic neuron is called _____.

(12 × ¼ = 3 weightage)

II. Short answer questions. Answer all *nine* questions :

- 13 Describe ECG.
- 14 What is β Oxidation ?
- 15 What is Glucosidic bond ?
- 16 What is Agglutination ?
- 17 Define ESR.
- 18 Define Cori cycle.
- 19 What is Neurotransmitter ?
- 20 What are Co-factors ?
- 21 What is Tetany ?

(9 × 1 = 9 weightage)

III. Short answer questions . Answer any *five* questions :

- 22 Describe the structure of Purine.
- 23 Write the importance of Fibres in food.
- 24 Briefly mention the Enzyme cascade theory.
- 25 Explain the biological functions of Protein.
- 26 What is Synapse ? Explain Synaptic transmission of impulse.
- 27 Distinguish between Glycogenesis and Glycogenolysis.
- 28 Comment on Carbon monoxide poisoning.

(5 × 2 = 10 weightage)

IV. Essay questions. Answer any *two* questions :

- 29 Give the classification of Carbohydrates.
- 30 Write an account of the types of Hearts.
- 31 Give an account of the mechanism of Hormone action in detail.

(2 × 4 = 8 weightage)