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(Pages 2)

Name.....

Reg. No.....

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FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2014

(UG-CCSS)

Core Course

Zoology

Z05 B11—BIOCHEMISTRY, PHYSIOLOGY AND ENDOCRINOLOGY

Time : Three Hours

Maximum : 30 Weightage

Give illustrations wherever necessary.

I. Answer all *twelve* questions. Each question carries $\frac{1}{4}$ weightage :

A Objective type question :

1 The condition by which there is too much CO_2 in the body fluid is called :

- (a) Hypoxia. (b) Hypercapnia.
(c) Asphyxia. (d) Anoxia.

2 Largest WBC :

- (a) Neutrophil. (b) Basophil.
(c) Monocytes. (d) Lymphocytes.

3 Which blood group is called Universal donor ?

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

4 In human, major share of the CO_2 is transported in the form of :

- (a) Carbonic acid. (b) Carbaminohaemoglobin.
(c) Bicarbonates. (d) None of the above.

B Match the following :—

- 5 Hering -Breur centre (a) Acetyl choline.
6 Blood in urine (b) Renin.
7 Neurotransmitter (c) Stretch receptor.
8 Vasopressin (d) Haematuria.
(e) Glycosuria.
(f) ADH.

Turn over

C Fill up the blanks :

- 9 The reaction of CO_2 and H_2O in RBC is catalyzed by an enzyme _____.
- 10 _____ is a Copper containing Respiratory pigments.
- 11 _____ is caused by Rh incompatibility.
- 12 In human being the Skin pigmentation is controlled by _____ hormone.

(12 \times $\frac{1}{4}$ = 3 weightaII. Short answer questions. Answer all *nine* questions :

- 13 What are Anticoagulants ? Give *two* examples.
- 14 What is Bohr Effect ?
- 15 What is Ionic bond ?
- 16 What is Prostaglandin ? Mention its functions.
- 17 What are Ribozymes ?
- 18 What is Benedict's test ?
- 19 Describe Proteinuria.
- 20 What is Rigor mortis ?
- 21 What is Fatigue ?

(9 \times 1 = 9 weightaIII. Short answer questions. Answer any *five* questions :

- 22 Explain the term Transamination.
- 23 What is Kreb's cycle ?
- 24 Write short account of Muscle twitch.
- 25 Write short account of Osmoregulation in terrestrial animals.
- 26 Give a brief account of physiological problems in Diving animals.
- 27 Describe Blood transfusion.
- 28 Give a brief account of different of types of Nerve cells.

(5 \times 2 = 10 weightaIV. Essay questions. Answer any *two* questions :

- 29 Explain the properties and mechanism of Enzyme action.
- 30 Explain CO_2 transport.
- 31 Write an essay on the mechanism of Muscle contraction.

(2 \times 4 = 8 weighta