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Competitive Exams: Zoology MCQs (Practice_Test 37 of 112)

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1. The deficiency of which one of the following hormones causes dwarfism and the excess of the same causes gigantism and acromegaly?
 - a. Thyrotropin
 - b. Somatotropin
 - c. Parathormone
 - d. Cortisone
2. Which of the following soak most of the atmospheric CO₂?
 - a. Cultivated lands
 - b. Bacteria
 - c. Forests
 - d. Oceans
3. The phenomenon of 'cyclomorphosis' exhibited by certain members of Rotifera and Cladocera is caused by
 - a. Variation in availability of food
 - b. Prey avoidance mechanism
 - c. Chemical induction and prey avoidance
 - d. Chemical induction and change in the water temperature
4. If a threshold stimulus is applied to a polarized membrane of a neuron, the
 - a. Sodium-Potassium ATPase gets activated
 - b. Sodium channels get opened
 - c. Potassium channels get opened

d. Both Sodium and Potassium channels get opened

5. Consider the following statements regarding Na-K pump

- a. It utilizes ATP
- b. It acts on a resting neuron
- c. It involves efflux of 3 Na⁺ per ATP
- d. It involves influx of 2K⁺ per ATP
- e. Metabolic poisons stop the pump

Which of the statements given above are correct?

- a. 1 and 2
- b. 1,2 and 5
- c. 3,4 and 5
- d. 1,2, 3,4 and 5

6. Consider the following statements: For osmoregulation in aquatic medium

- a. A freshwater fish has to drink water continuously
- b. A marine bony fish has to drink water continuously
- c. A freshwater fish produces copious urine, which is hypotonic to blood
- d. A marine fish produces scanty urine, which is hyper osmotic to blood

Which of the statements given above is/are correct?

- a. 1 only
- b. 4 only
- c. 1 and 4
- d. 2 and 3

7. Match List I (Amino acids) with List II (Converted products due to oxidation) and select the correct answer

List-I	List-II
A. Glycine	1. a-Ketoglutarate
B. Aspartate	2. Succinyl-CoA
C. Proline	3. Pyruvate
D. Leucine	4. Acetyl-CoA

5. Oxaloacetate

A B C D

- a. 3 5 1 4
- b. 2 3 5 4
- c. 4 5 1 3
- d. 3 2 4 5
8. Biological oxidation involves a sequential transfer of electrons from various dehydrogenate systems towards molecular oxygen. This is accomplished with the help of
- Cytochromes located in the inner mitochondrial membrane
 - Flavoproteins located in the cytosol
 - Cyanocobalamine located in the outer mitochondrial membrane
 - Protoporphyrin IX located in the inner mitochondrial membrane
9. The primary function of cortical reaction or egg activation during fertilization is to
- Secrete hyaluronidase enzyme
 - Block the polyspermy
 - Form the zygotic nucleus
 - Change the pH of egg cytoplasm
10. A major factor which is involved in the process of metamorphosis of amphibia is
- Thyroxin
 - Follicle stimulating hormone
 - Insulin
 - Latinizing hormone
11. When the tadpole larve of frog undergoes the process of metamorphosis then
- Fore limbs appear first
 - Hind limbs appear first
 - Reduction of tail takes place first

- d. Lungs appear first
12. In Ascidians during retrogressive metamorphosis, the degenerating structure include
- a. Locomotory, Nervous and Notochord
 - b. Digestive, Locomotory and Spinal cord
 - c. Nervous, Digestive and Notochord
 - d. Digestive and Spinal cord
13. Rotational cleavage occurs in
- a. Insects
 - b. Ascidians
 - c. Mammals
 - d. Amphibians
14. In the chick blastoderm, the process of neural plate formation is initiated at
- a. Epiblast
 - b. Area opaca
 - c. Hypoblast
 - d. Neural crest cells
15. The mesoderm does not give rise to
- a. Muscular system
 - b. Nervous system
 - c. Circulatory system
 - d. Gonads