

ZOOLOGY

1. Arrange the following layers of muscles in the correct sequences from outside to inside
 a) epimysium b) endomysium c) perimysium d) sarcolemma
 a) a-c-d-b b) b-d-c-a c) a-c-b-d d) c-a-b-d

2. A: J.Z. Young described birds as the masters of Air.
 R: Birds are the only flying animals.
 a) Both (A) and (R) are true and (R) is correct explanation of (A)
 b) Both (A) and (R) are true and (R) is not correct explanation of (A)
 c) is true but (R) is false
 d) Both (A) and (R) are false

3. The endoskeleton in cyclostomata is
 a) absent b) bony c) fibrous and cartilaginous d) bony and fibrous

4. A bilateral symmetry deuterostome is classified in the phylum
 a) annelida b) chordata c) arthropoda d) echinodermata

5. P^H of acid rain is
 a) 0.5-3.5 b) 3-6 c) 7-10 d) 10-14

6. Which one of the following mammalian cells is not capable of metabolizing glucose to carbon dioxide aerobically?
 a) Red blood cells
 b) White blood cells
 c) Unstriated muscle cells
 d) Liver cell

7. Match the list -I (Drug) with list II (source) and select the correct answer.

List-I A. LSD B. Opium C. Cocaine D. Hashish	List -2 1. Papaver 2. Claviceps 3. Cannabis 4. Erythroxylum sps
a) A=2, B=4, C=1, D=3 c) A=2, B=1, C=4, D=3	b) A=3, B=2, C=1, D=4 c) A=4, B=3, C=2, D=1

8. Arrange the following vertebrates having Amphiplaty, Procoelous, Heterocoelous and Amphicoelous vertebrae respectively in a sequence.
 A) Rabbit B) Pigeon C) Caecilians D) Alligator
 1) A-C-B-D 2) C-B-D-A 3) C-B-A-D 4) A-D-B-C

9. Following are the statements about smog
 1. It is a mixture of smoke and fog
 2. London smog consists of H_2SO_4
 3. Los Angeles smog is the reducing smog

- a) All are true
- b) Only 1 & 2 are true
- c) Only 2 & 3 are true
- d) Only 3 & 1 are true

10. Differentiation of organs and tissues in a developing organism, is associated with:

- a) Deletion of genes
- b) Developmental mutations
- c) Differential expression of genes
- d) Lethal mutations

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|----------------|-------------------|---------------|
| iii) Oxalis | Hypanthodium | Runner |
| iv) HeJianthus | Heterogamous head | Tuberous stem |
- Which taxa shows the correct combination?
- a) i & iii b) ii only c) iii&iv d) i&ii

7. The ratio of cohorts seen in polypetatae and gamopetalae respectively in B & H system is

- a) 2: 3 b) 3: 2 c) 1:2 d) 2:1,

8. Colchicine is obtained from *Colchicum autumnale*. It belongs to family

- a) Liliaceae b) solanaceae c) Leguminaceae d) Poaceae

9. Prokaryotic cells are represented by

- I. Bacteria II. Cyanobacteria III. Mycoplasmas IV. PPLO V. Yeasts

- a) I,III,V,IV, b) I,II,III,IV c) I,II,IV, V d) II,III,IV, V

10. Assertion (A): This is the main concept of cell doctrine theory.

Reason (R): cell is a structural and functional unit of all organisms

- a) Both (A) and (R) are true and (R) is correct explanation of (A)
 b) Both (A) and (R) are true and (R) is not correct explanation of (A)
 c) is true but (R) is false
 d) Both (A) and (R) are false