

## LE-+3 SC-B SC ZOOLOGY- 2014,

1. Mimicry is
  - a) Structural adaptation
  - b) Animal association adaptation
  - c) Protective adaptation
  - d) Regulated by environmental factors
  
2. Allopatric speciation occurs when population show
  - a) Reproductive isolation
  - b) Ecological isolation
  - c) Seasonal isolation
  - d) Geographic isolation
  
3. Grey crescent is an area formed soon after fertilization in
  - a) Zygote of all animals
  - b) Zygote of amphibians
  - c) Blastula of vertebrates
  - d) Zygote of nonchordates
  
4. Bidder's organ is
  - a) A neurosecretory component of brain in some amphibians
  - b) A part of reproductive system in some amphibians
  - c) A scent producing organ for attracting the opposite sex
  - d) An endocrine organ
  
5. Neoteny in Axolotl larva is the phenomenon where a larva
  - a) Gains new tone in its body muscles
  - b) Metamorphoses in a normal manner
  - c) Becomes sexually mature and can reproduce but remains other systems in their larval state
  - d) Permanently retains all it's systems in larval state without metamorphosis
  
6. Which one of the following combinations of chromosome number (N) and DNA content (C) is true in diplotene stage of mammalian spermatogenesis
  - a) 1N and 2C

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- b) 2N and 4C
  - c) 2N and 2C
  - d) 1N and 4C
7. Amnion and allantois are found in
- a) Fish, frog, and fowl
  - b) Fish and frog
  - c) Fowl and fox
  - d) Frog, fowl and fox
8. Ribosomes (80S) can be dissociated into two subunits (60S and 40S). The subunits again can re-form the 80S unit. What is the divalent cation in the presence of which such conversions take place?
- a)  $Mg^{++}$
  - b)  $Ca^{++}$
  - c)  $Fe^{++}$
  - d)  $Cu^{++}$
9. Mammals differ from birds in having :
- a) Single aortic arch
  - b) Seven cervical vertebrae
  - c) Warm blood
  - d) Lack of flight ability
10. During each month of the female sexual cycle, there is a cycle :
- a) Decrease of FSH
  - b) Increase of FSH and LH
  - c) Decrease in FSH and LH
  - d) Increase FSH and decrease LH
11. Which one of the following scientists published the book "Origin of life"?
- a) Harold Urey
  - b) J. B. S. Haldane
  - c) A. I. Oparin
  - d) Stanley Miller
12. Which one of the following function is performed by the Kupffer cells?
- a) Phagocytic
  - b) Stimulatory

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- c) Sensory
- d) Digestive

13. Proteins that are to be used outside the cell are synthesized

- a) on free ribosomes
- b) on the smooth endoplasmic reticulum
- c) on the rough endoplasmic reticulum
- d) in the mitochondria

14. Paternal care is shown by :

- a) Male *Hippocampus*
- b) Female *Hippocampus*
- c) Male *Scoliodon*
- d) Male *Mugil*

15. Pregnancy can be detected within very few days of conception by immunoassaying urine for presence of

- a) FSH
- b) LH
- c) Human chorionic gonadotropin hormone (HCGH)
- d) Progesterone

Answer sheet of : 2014, LE-+3 SC-ZOOLOGY

1. c,      2. d,      3. b,      4. b,      5. c,      6. b,      7. c,      8. a,

9. b,      10. d,      11. c,      12. a,      13. c,      14. a,      15. c,