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## Competitive Exams: Zoology MCQs (Practice\_Test 6 of 112)

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1. Which one of the following pairs of substances and functions is NOT correctly matched?
  - a. Actin 褰Slides past myosin causing contraction
  - b. Calcium 褰Triggers enzymatic action of myosin
  - c. ATPase 褰Enzyme that splits ATP
  - d. ATP 褰Supplies energy for breaking actomyosin
2. Which one of the following sets of organisms develops Parthenogenetically?
  - a. Aphids, bees and grasshoppers
  - b. Bees, wasps and ants
  - c. Ants, Aphids and earthworms
  - d. Wasps, cockroaches and fish
3. The fertilization cone that pulls the sperms into the egg is formed from the
  - a. acrosome of the sperm
  - b. acrosomal process
  - c. vitelline layers of the egg
  - d. plasma membrane of the egg
4. The correct sequence of gastrulation in frog is
  - a. Involution and epiboly
  - b. Invagination, involution and epiboly
  - c. Invagination and convergence
  - d. Convergence, involution and ingression

5. In the embryonic development of frog, the animal pole forms
- head
  - tail
  - dorsal side
  - ventral side
6. Which one of the following is a vital dye used to observe the embryonic cell movement during gastrulation?
- Janus green
  - Toluidine blue
  - Eosin
  - Alcian blue
7. The part of chick embryo comparable to the dorsal tip of amphibian blastopore is the
- primitive streak
  - primitive groove
  - anterior margin of Hansen's node
  - area pellucida
8. Match List (Cleavage type) with List II (Exam/feature) and select the correct answer:

List-I	List-II
A. Meroblastic	1. Dextral
B. Holoblastic	2. Germinal disc
C. Spiral	3. Telolecithal
D. Bilateral	4. Mesolecithal

**A B C D**

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a. 2 4 3 1

b. 4 2 1 3

c. 4 2 3 1

d. 2 4 1 3

9. Which one of the following cell organelles participates in the construction of daughter blastomeres during cleavage?
- a. Microtubules
  - b. Microfilaments
  - c. Microsomes
  - d. Micromeres
10. Extraembryonic membranes provide protection and secure food for the developing embryo in amniotes. What is the significance of vestigial yolk sac in mammals?
- a. Adaptive
  - b. Evolutionary
  - c. Protective
  - d. Synthetic
11. Primordial atmosphere of the earth could NOT possibly have combined
- a. nitrogen
  - b. oxygen
  - c. hydrogen
  - d. methane
12. Modern synthetic theory of evolution has emerged as a result of the studies on
- a. population dynamics
  - b. gene recombination
  - c. hybridization between species
  - d. population isolation
13. The correct sequence of evolution leading to present-day horses is

- a. Eohippus, Miohippus, Merychippus, Pliohippus, Equus
- b. Eohippus, Pliohippus, Merychippus, Orhippus, Equus
- c. Eohippus, Mesohippus, Orhippus, Merychippus, Pliohippus. Equus
- d. Eohippus, Merychippus, Miohippus

Orhippus, Equus

14. Which one of the following correctly defines point mutation?
- a. Changes in the location of a block of genes in the chromosomes
  - b. Inversion of a block of genes within a chromosome
  - c. Loss of a segment of DNA containing one or several genes from a chromosome
  - d. Alteration in the DNA sequence of a gene and passing of the new nucleotide sequence to the offspring
15. Which one of the following statements is NOT correct regarding mutation?
- a. Mutations are changes either in the genes or in the chromosomes
  - b. Mutations may be dominant or recessive
  - c. Mutations are always recessive
  - d. Recessive gene mutations may remain dormant for generations

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