

Examrace

Competitive Exams: Zoology MCQs (Practice_Test 88 of 112)

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1. Variation is considered as the raw material for evolution. Which of the following is/are important for generating variation in a population and thereby helping the evolutionary process?
 - a. Some organisms in a population develop variable, characters due to malnutrition.
 - b. Another group of organisms develops different characters due to aging.
 - c. Still some others show uncommon characters resulting from recombination of genes during meiosis.

Select the correct answer using. The codes given below:

- a. 1 and 2
 - b. 2 and 3
 - c. 2 alone
 - d. 3 alone
2. Which one of the following statements best explains the evolutionary advantage of meiosis?
 - a. Genetic recombination's are possible from generation to generation
 - b. Meiosis alternates with mitosis from generation to generation
 - c. The same genetic system is passed pm from generation to generation
 - d. Meiosis is necessary for sexual reproduction
 3. Which one of the following pairs is not correctly matched?
 - a. Cursorial adaptations—Limb bones elongated
 - b. Fossorial Adaptations—Developed shoulder girdle
 - c. Arboreal adaptations—Webbed feet
 - d. Volant adaptations—Fusion of certain bones
 4. The term 'hot dilute soup' has been used while explaining the theory of
 - a. Special creation
 - b. Chemical evolution

- c. Spontaneous generation
- d. Panspermia
5. Anti-human serum was mixed separately with blood of cat, monkey and gorilla in a definite proportion. It led to precipitin reaction, but the degree of reaction varied. The degrees of precipitin reaction are such that
- Cat > monkey > gorilla
 - Monkey > gorilla > cat
 - Gorilla > cat > monkey
 - Gorilla > monkey > cat
6. Match list-I (Zoological names) with List-II (Common names) and select the correct answer:

List-I	List-II
A. <i>Stophilus oryzae</i>	1. Rice weevil
B. <i>Trogoderma granarium</i>	2. Khapra beetle
C. <i>Tribolium castaneum</i>	3. Flour beetle
D. <i>Plodia interpunctella</i>	4. Indian meal moth

A B C D

- 2 3 4 1
 - 2 3 1 4
 - 1 2 4 3
 - 1 2 3 4
7. Which of the following damage symptoms are the characteristic features of the injury caused by the top shoot borer, scirpophaga (*Tryporiza*) *nivella*?
- Bunchy top.
 - Presence of gun shot holes.
 - Dead heart.

d. Lodging of plant.

Select the correct answer using the codes gives below:

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

8. Potentially more efficient mechanism preventing attack by insect pests to tomato or potato plants occurs by the development to a chemical defense on accumulation of a chemical substance at the wound site or throughout leaves. It interferes with the specific digestive enzyme activity of the pests.

- a. Lipase activity
- b. Proteinase activity
- c. Carbohydrase activity
- d. Esterase activity

9. ◦ **Assertion (A):** Gene is a biological entity a heritable function detected by observing the effect of a mutation. A gene consists of all the DNA sequences necessary to produce a single peptide or RNA product.

◦ **Reason (R):** The gene is a single, contiguous protein encoding stretch of DNA.

- a. Both A and R are true and R is the correct explanation of A
- b. Both A and R are true but R is NOT a correct explanation of A
- c. A is true but R is false
- d. A is false but R is true

o. ◦ **Assertion (A):** After the addition of the last amino acid to a growing polypeptide chain, the protein synthesis terminates.

◦ **Reason (R):** The terminator codon interacts with release factor (s) and the resultant RF-terminator codon-ribosome complex effectively blocks further chain elongation.

- a. Both A and R are true and R is the correct explanation of A
- b. Both A and R are true but R is NOT a correct explanation of A
- c. A is true but R is false

d. A is false but R is true

11. ◦ **Assertion (A):** The presence of contractile vacuole is very essential in amoeba.
- **Reason (R):** If the excess water is not removed, amoeba would soon swell and burst.
 - a. Both A and R are true and R is the correct explanation of A
 - b. Both A and R are true but R is NOT a correct explanation of A
 - c. A is true but R is false
 - d. A is false but R is true
12. ◦ **Assertion (A):** Cicada belongs to class Insecta.
- **Reason (R):** Male sings loudly by two sets of vibrating plates on fore part of abdomen.
 - a. Both A and R are true and R is the correct explanation of A
 - b. Both A and R are true but R is NOT a correct explanation of A
 - c. A is true but R is false
 - d. A is false but R is true
13. ◦ **Assertion (A):** Neopilina, discovered in 1952, is a primitive living mollusc.
- **Reason (R):** Absence of shell is considered a primitive feature for a living molluscan form.
 - a. Both A and R are true and R is the correct explanation of A
 - b. Both A and R are true but R is NOT a correct explanation of A
 - c. A is true but R is false
 - d. A is false but R is true
14. ◦ **Assertion (A):** Archaeopteryx is a connecting link between reptiles and modern birds.
- **Reason (R):** It possesses pneumatized bones, an avian character and opposable first toe of foot, a reptilian character and opposable first toe of foot, a reptilian character.
 - a. Both A and R are true and R is the correct explanation of A
 - b. Both A and R are true but R is NOT a correct explanation of A
 - c. A is true but R is false
 - d. A is false but R is true
15. ◦ **Assertion (A):** The conjugation in Paramecium corresponds to crossfertilization of higher animals.

- **Reason (R):** The conjugation in

Paramecium is a process of reconstruction of nuclei involving the fusion of gametic nuclei.

- Both A and R are true and R is the correct explanation of A
- Both A and R are true but R is NOT a correct explanation of A
- A is true but R is false
- A is false but R is true

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