

## Examrace

### Competitive Exams: Zoology MCQs (Practice\_Test 59 of 112)

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1. What is the initiation codon in transcription?
  - a. UGA
  - b. UAG
  - c. UAA
  - d. AUG
  
2. The structure of which one of the following inhibitors of protein synthesis is very similar to 3' end of an aminoacyl tRNA?
  - a. Chloramphenicol
  - b. Cycloheximide
  - c. Puromycin
  - d. Streptomycin
  
3. Consider the following statements:
  - a. The myelin sheath of neurons is an extended plasma membrane which contains more protein than lipid (in mass per total mass)
  - b. The membranes of mitochondria contain more lipid than protein (in mass per total mass)Which of the statements given above is/are correct?
  - a. 1 only
  - b. 2 only
  - c. Both 1 and 2
  - d. Neither 1 nor 2
  
4. Consider the following statements:
  - a. The nucleolus is inconspicuous/absent in sperm and muscle fibers.
  - b. The membranes of smooth endoplasmic reticulum contain enzymes that are involved in the synthesis of sterols and triglycerides.

Which of the statements given above is/are correct?

- a. 1 only
  - b. 2 only
  - c. Both 1 and 2
  - d. Neither 1 nor 2
5. In the typical eukaryotic cell cycle, which one of the following phases is shortest?
- a. G 1 phase
  - b. G 2 phase
  - c. M phase
  - d. S phase
6. Which one of the following statements is not correct?
- a. Animal cells generally have fewer mitochondria, as compared to plant cells.
  - b. The inner membrane of mitochondrion is selectively permeable.
  - c. Mitochondrial DNA is circular.
  - d. Mitochondrial DNA codes for intrinsic ribosomal RNA, transfer RNA and ribosomal proteins.
7. Consider the following statements:
- a. Lysosomes essentially contain oxidases whereas peroxisomes essentially contain hydrolases.
  - b. Lysosomes are formed by budding off from the smooth endoplasmic reticulum whereas peroxisomes are formed by budding off from Golgi apparatus.

Which of the statements given above is/are correct?

- a. 1 only
  - b. 1 only
  - c. Both 1 and 2
  - d. Neither 1 nor 2
8. In the context of mutations in genetic material, which one of the following is an intercalating agent?
- a. Colchicine
  - b. Ethidium bromide
  - c. 5-bromouracil

d. Rifampicin

9. With reference to Himalayan wild goats, Consider the following statements:

- a. The ibex lives in Himalayas above the tree line and below the snow line.
- b. The markhor can climb a tree to browse its leaves.

Which of the statements given above is/are correct?

- a. 1 only
- b. 2 only
- c. Both 1 and 2
- d. Neither 1 nor 2

10. Match List-I with List-II and select the correct answer using the code given below the lists:

List-I (Species)	List-II (Natural habitat)
A. <i>Ailurus fulgens</i>	1. Semi-arid areas surrounding Thar desert
B. <i>Felis libyca</i>	2. Eastern Himalayas
C. <i>Loris tardigradus</i>	3. Dense forests of South India
D. <i>Equus hemionus kiang</i>	4. Ladakh and Spiti areas of Western Himalayas

**A B C D**

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

11. Consider the following pairs:

- a. Mudumalai Wildlife Sanctuary 麋 Mouse deer
- b. Dibru Saikhowa Wildlife Sanctuary 麋 Swamp deer
- c. Nagarjunasagar Srisailem Wildlife Sanctuary 麋 Indian Pangolin

Which of the pairs given above is/are correctly matched?

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

12. Consider the following statements:

- a. Prosthetic groups in enzymes function as electron acceptors.
- b. Prosthetic groups bind to the enzyme always by ionic bonds.

Which of the statements given above is/are correct?

- a. 1only
- b. 2 only
- c. Both 1 and 2
- d. Neither 1 nor 2

13. Match List-I with List-II and select the correct answer using the code given below the lists:

List-I (Insects)	List-II (Order)
A. Bees	1. Diptera
B. Butterflies	2. Hymenoptera
C. Houseflies	3. Isoptera
D. Termites	4. Lepidoptera

**A B C D**

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

14. With reference to a termite colony, consider the following statements:

- a. The soldiers are all male and winged.

b. The workers are both male and female with no wings.

Which of the statements given above is/are correct?

- a. 1 only
- b. 2 only
- c. Both 1 and 2
- d. Neither 1 nor 2

15. Match List-I with List-II and select the correct answer using the code given below the lists:

List-I (Order)	List-II (Example)
A. Beloniformes	1. Anabas
B. Cypriniformes	2. Catla
C. Perciformes	3. Exocoetus
D. Syngnathiformes	4. Hippocampus

**A B C D**

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

16. In the induced breeding technique in fishes, the extract of which one of the following is used?

- a. Gonads
- b. Pancreas
- c. Pituitary
- d. Thyroid

17. Which of the following is used in preparing 'Is in Glass'?

- a. Scales of fishes
- b. Shell of oysters

- c. Air bladder of fishes
- d. 'Cuttle bone' of cephalopods

18. Consider the following features of animals:

- a. There is no pectoral girdle
- b. The urinary bladder is absent
- c. The brain case is closed anteriorly

Which of the above anatomical feature/features distinguish/distinguishes snakes from lizards?

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

19. Which one of the following snakes is viviparous?

- a. *Bungarus coeruleus*
- b. *Python molurus*
- c. *Vipera russeli*
- d. *Zamenis mucosus*

20. Consider the following species of Silkworms:

- a. *Antheraea assama*
- b. *Attacus ricini*
- c. *Bombyx mori*

Which of the above belongs/belong to the family Saturniidae?

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

21. Down's syndrome is caused by an extra:

- a. 11<sup>th</sup> chromosome
- b. 18<sup>th</sup> chromosome
- c. 21<sup>st</sup> chromosome

d. 22<sup>nd</sup> chromosome

22. With reference to human genetic disorders affecting amino acid catabolism, which one of the following pairs is not correctly matched? Condition Defective enzyme
- Albinism 褻Tyrosine 3-monoxygenase
  - Alkaptonuria 褻Homogentisate 1,2-dioxygenase
  - Maple syrup urine disease 褻Branched chain a-Keto acid dehydrogenase complex
  - Phenylketonuria 褻Methylmalonyl CoA mutase
23. ◦ **Assertion (A)** : In electron transfer reaction in mitochondria, the energy for ATP synthesis is provided by the proton-motive force that drives protons back from intermembrane space into the matrix.
- **Reason (R)** : The inner mitochondrial membrane is permeable to protons.
- Both A and R are individually true and R is the correct explanation of A
  - Both A and R are individually true but R is not the correct explanation of A
  - A is true but R is false
  - A is false but R is true
24. ◦ **Assertion (A)** : Morgan's cross between white eyed male fruit flies and wild type females is an example of a test-cross.
- **Reason (R)** : The standard test-cross is between a homozygous recessive organism and the one displaying the dominant phenotype.
- Both A and R are individually true and R is the correct explanation of A
  - Both A and R are individually true but R is not the correct explanation of A
  - A is true but R is false
  - A is false but R is true
25. ◦ **Assertion (A)** : Entamoeba coil is an endocommensal.
- **Reason (R)** : It lives in the lumen of the ileum of humans.
- Both A and R are individually true and R is the correct explanation of A
  - Both A and R are individually true but R is not the correct explanation of A
  - A is true but R is false
  - A is false but R is true
26. ◦ **Assertion (A)** : The body wall of leech has respiratory function.

- **Reason (R)** : The parapodia have rich blood supply and gaseous exchange takes place at their surface.
  - a. Both A and R are individually true and R is the correct explanation of A
  - b. Both A and R are individually true but R is not the correct explanation of A
  - c. A is true but R is false
  - d. A is false but R is true
- 27. ○ **Assertion (A)** : During the cleavage in the zygote of frog, micromeres divide more rapidly than megameres.
  - **Reason (R)** : The yolk hinders the division of megameres.
    - a. Both A and R are individually true and R is the correct explanation of A
    - b. Both A and R are individually true but R is not the correct explanation of A
    - c. A is true but R is false
    - d. A is false but R is true
- 28. ○ **Assertion (A)** : In Hydra, nematocysts are produced only on the stomach and get transferred to their ultimate positions.
  - **Reason (R)** : Nematocysts are living cells modified to perform a special function.
    - a. Both A and R are individually true and R is the correct explanation of A
    - b. Both A and R are individually true but R is not the correct explanation of A
    - c. A is true but R is false
    - d. A is false but R is true
- 29. ○ **Assertion (A)** : The destruction of forests by acid precipitation or other activities will result in major perturbations of the nitrogen cycle.
  - **Reason (R)** : Forests are a major nitrogencontaining component of the biosphere.
    - a. Both A and R are individually true and R is the correct explanation of A
    - b. Both A and R are individually true but R is not the correct explanation of A
    - c. A is true but R is false
    - d. A is false but R is true
- 30. ○ **Assertion (A)** : The concentration of oxygen within Amoeba always remains higher than that in outside water.
  - **Reason (R)** : The oxygen dissolved in the surrounding water passes into the cytoplasm of Amoeba by diffusion.

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

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