

## Examrace

### Competitive Exams: Zoology MCQs (Practice\_Test 33 of 112)

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1. The thread like structures that begin to radiate from each centromere by the end of prophase are
  - a. Spindle microtubules
  - b. Kinetochore microtubules
  - c. Polar microtubules
  - d. Aster microtubules
2. In a family, father and son were found to be colour blind. This is due to the defective recessive gene present in
  - a. X-chromosome
  - b. Y-chromosome
  - c. X and Y chromosome
  - d. autosomes
3. In which one of the following stages of mitosis is the maximum chromosomal condensation observed?
  - a. Cytokinesis
  - b. Prophase
  - c. Metaphase
  - d. Anaphase
4. Among the following organisms, the chromosome number is highest in
  - a. Columba livia
  - b. Gorilla gorilla
  - c. Homo sapiens
  - d. Oryctolagus cuniculus
5. Experimental evidence to prove that hormones act first on the cytoplasm and through it on the genes was provided by Clever and Karlson by their work on

- a. Injection of juvenile hormone in chironomus larva
- b. Administration of thyroxine to tadpole larva of frog
- c. Injection of ecdysone hormone in chironomus larva
- d. In vitro incubation of lymphocytes with cortisol

6. Consider the following statements:

- a. Barr body gives a positive Feulgen reaction
- b. Barr bodies are absent in klinefelter syndrome

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

7. Puffs of the polytene chromosomes of Drosophila are the sites which incorporate

- a.  $^3\text{H}$ -Uridine
- b.  $^3\text{H}$ -Thymidine
- c.  $^3\text{H}$ -Leucine
- d.  $^3\text{H}$ -Glucose

8. The first human hormone produced by recombinant DNA technology was

- a. Cortisol
- b. Glucagon
- c. Insulin
- d. Epinephrine

9. The smallest unit DNA which is capable of under going crossing over and recombination is

- a. cistron
- b. muton
- c. recon
- d. replicon

10. Chiasmata serve as the points for

- a. attachment of genes

- b. exchange of genes
  - c. transposition of genes
  - d. deletion of genes
11. A segment of DNA strand with base sequence of Adenine A, Guanine G, Cytosine C, Thymine T Adenine A, would give rise to the complementary strand of mRNA with base sequence
- a. C, A, U, G, T
  - b. U, C, G, A, U
  - c. T, C, U, A, G
  - d. U, T, U, A, C

### ZOOLOGY

12. Heteromorphous nuclei occur in
- a. Muscle cells
  - b. Human germ cells
  - c. Neurons
  - d. Ciliated protozoan
13. Haemophilic gene of a father is inherited to
- a. All of his daughters
  - b. All-of his sons
  - c. 50 % of his daughters
  - d. 50 % of his sons
14. Consider the following
- a. Kappa particles in Paramecium
  - b. Shell coiling in Limnaea
  - c. Shape of the ear lobe in human beings

Which of the above is/are the example (s) of cytoplasmic/extranuclear inheritance

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

15. In protein synthesis, the enzyme that catalyses peptide bonding is located at the
- Leader sequence of the mRNA
  - Central part of the tRNA
  - Smaller subunit of the ribosome
  - Larger subunit of the ribosome

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