

**RAMAKRISHNA MISSION VIVEKANANDA CENTENARY COLLEGE, RAHARA, KOLKATA**  
**Undergraduate Admission Test 2025: Zoology Honours**

**Full Marks : 75**

**Time : 1 hour**

1. Viral genome incorporated into host DNA is called
  - a) Bacteriophage
  - b) Plasmid
  - c) Prophage
  - d) Prophase
2. SER is mostly concerned with
  - a. Protein synthesis
  - b. Carbohydrate synthesis
  - c. Peptide bond formation
  - d. Lipid synthesis
3. Genetically similar but morphologically different populations of individuals are
  - a. Ecotypes
  - b. Ecads
  - c. Ecotones
  - d. Ecoclines
4. An Individual is affected with HIV, but in not having AIDS. According to you
  - a) It is possible.
  - b) Impossible
  - c) Will definitely have AIDS
  - d) Both a & c
5. Lakshadweep archipelago is an example of
  - a) Volcanic islands.
  - b) Coral reef
  - c) Rocky islands
  - d) Poriferan accumulation.
6. The best technique for quantification of mRNA in single oocyte and embryos is
  - a) Reverse transcriptase PCR
  - b) RT PCR
  - c) FISH
  - d) RFLP

7. Maximum possible isomers of Glucose is
- 4.
  - 8
  - 16
  - 32
8. In “Operation Sindoor”, Harpy Drone used by Indian armed forces gets its name from
- Peacock
  - Eagle
  - Hawk
  - Vulture
9. World Whale Day is celebrated annually on the
- Third Sunday of February
  - Third Sunday of June
  - Third Sunday of October
  - Third Sunday of December
10. Which of the followings are non-coding RNAs?
- miRNAs, snRNAs
  - siRNAs, piRNAs, snoRNAs,
  - lncRNAs, miRNAs, piRNAs, snoRNAs
  - miRNAs, siRNAs, snRNAs, piRNAs, lncRNAs, snoRNAs
11. Salivary immunoglobulin which plays a crucial role in mucosal immunity acting as a first line of defense against pathogens in the oral cavity is
- IgG
  - IgA
  - IgM
  - IgD
12. Highest number of mitochondria is found in which of following cell of human?
- Egg cell
  - Heart muscle cell
  - Liver cell
  - Adipose cell
13. Stress hormones of body are
- Cortisol & Insulin
  - Adrenaline & Noradrenaline
  - Cortisol, Adrenaline & Growth hormone
  - Insulin, Growth hormone & thyroid hormone

14. Which of the following is not a component of a nucleotide?

- a) Nitrogenous base
- b) Pentose sugar
- c) Phosphate group
- d) Amino acid

15. The enzyme responsible for DNA synthesis is:

- a) DNA ligase
- b) DNA polymerase
- c) RNA polymerase
- d) Helicase

16. A gene is best defined as:

- a) A protein molecule
- b) A sequence of amino acids
- c) A segment of DNA coding for a functional product
- d) A type of enzyme

17. The centromere is the region where:

- a) DNA replication begins
- b) RNA transcription occurs
- c) Two sister chromatids are joined
- d) Ribosomes attach to DNA

18. Down syndrome is caused by:

- a) A mutation in a single gene
- b) Deletion of a chromosome
- c) Trisomy of chromosome 21
- d) Monosomy of the X chromosome

19. In eukaryotes, histones help in:

- a) DNA replication
- b) Chromosome packaging
- c) RNA splicing
- d) Protein folding

20. Which one of the following is correctly matched-

- a) Kalaazar—*Plasmodium falciparum*
- b) Malaria—*Leishmania donovani*
- c) Sleeping sickness—*Entamoeba histolytica*
- d) Filariasis - *Wuchereria bancrofti*

21. Tick odd one out
- a) Sea anemone
  - b) Sea cucumber
  - c) Sea urchin
  - d) Sea star
22. All the living cells of the body consumes one-fourth of the cell metabolic energy in –
- a) Maintaining the resting membrane potential of the cell
  - b) Maintaining the respiration
  - c) Maintaining the osmoregulation
  - d) Cell- cell communication
23. Techniques used to separate molecules or particles that differ in mass or density is/ are-
- a) Electrophoresis
  - b) Centrifugation
  - c) chromatography
  - d) All of the above
24. Which of the following periods is known as “Age of Fishes”?
- a) Cambrian
  - b) Jurassic
  - c) Carboniferous
  - d) Devonian
25. Homologous structures are
- a) functionally similar evolved due to evolutionary convergence
  - b) structurally different
  - c) with common evolutionary origin
  - d) None of above