



An Eye on Talent

## Olympiad Aptitude Test Biology- Grade XI

1. It is the study of fossils and their relationship to the evolution of life on earth:
  - a) embryology
  - b) taxonomy
  - c) physiology
  - d) None of these Correct
2. Taxonomy is the study of:
  - a) Functions of different parts of organisms
  - b) Naming and classification of organisms
  - c) Hereditary characters
  - d) Structure and functions of cells
3. The statement made by a scientist, which may be the possible answer to the problem.
  - a) Deduction
  - b) Theory
  - c) Hypothesis
  - d) Law Correct
4. The entry of Plasmodium into the blood of Man was discovered by:
  - a) A. F. A. King
  - b) Laveran
  - c) Ronald Ross
  - d) Grassi Correct
5. When sporozoites of Plasmodium pass from the blood to liver cells, they multiply for:
  - a) 8 days
  - b) 10 days
  - c) 12 days
  - d) 14 days
6. The pushing out of materials by the cell against the concentration gradient is:
  - a) Low transport
  - b) Passive transport
  - c) Active transport
  - d) Moderate transport
7. Robert Hooke examined thin slices of cork made up of the bark of:
  - a) Pine
  - b) Sheesham
  - c) Oak
  - d) Mulberry



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7. Parenchyma cells are concerned with:
- Secretion
  - Support
  - Carry Oxygen
  - Storage of surplus food
8. It is a site of certain metabolic pathways:
- Cell wall
  - Plasma membrane
  - Cytoplasm
  - A & B Correct
9. The water percentage of cytosol in the cytoplasm is:
- 50
  - 60
  - 70
  - 90
10. Smooth Endoplasmic Reticulum helps to:
- Synthesize proteins
  - Detoxify the harmful drugs
  - Prepare food
  - Decompose proteins
11. The 60S and 40S subunits on attachment with each other form:
- 100S particle
  - 90S particle
  - 80S particle
  - 70S particle
12. Which of the following organelles is present in both prokaryotic and eukaryotic cells?
- Chloroplast
  - Ribosomes
  - Mitochondria
  - Golgi Complex
13. Which of the following pair is incorrect?
- Ribosome \_\_\_\_\_ Protein synthesis
  - Chloroplast \_\_\_\_\_ Photosynthesis
  - Mitochondria \_\_\_\_\_ Fermentation
  - Plasma membrane \_\_\_\_\_ Osmosis



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14. Lysosomes contain enzymes capable of:
- Aerobic cellular respiration
  - Digesting part of the cell
  - Synthesizing protein
  - Synthesizing lipids
15. Which of the following properties is incorrect for both mitochondria and chloroplast:
- Both have an electron transport system
  - ATP synthesis
  - Both are present in all cells
  - Both are double membrane structures
16. Which of the following is used in cheese production:
- Amanita
  - Rhizopus
  - Penecillium
  - Neurospora
17. Athletes foot disease in man caused by:
- Epidermophyton
  - Penecillium
  - Rhizopus
  - Agaricus
18. Meiosis in Stigeoclonium occurs:
- before gamete formation
  - after gamete formation
  - in the zygote
  - during zoospore formation
19. Zygospores are generally absent in a culture of Rhizopus hyphae developed from a single spore due to:
- deficiency of nutrients
  - excess of nutrients
  - presence of plus and minus strains
  - abslience of plus and minus strains
20. Which of the following is mismatched?
- Rhizopus \_\_\_\_\_ heterotrophic
  - Pink bread mold \_\_\_\_\_ Penecillium
  - Stigeoclonium \_\_\_\_\_ heterotrichous
  - Ulva \_\_\_\_\_ marine