



**BOARD OF INTERMEDIATE & SECONDARY EDUCATION, HYDERABAD**

*Excellence – equity – empathy*  
**Zoology Model Paper XI (Pre-Medical)**

Time: 01.30

Total marks: 42

**SECTION-A**

Multiple Choice Questions (MCQ's)

Marks: 22

Q1. Choose the correct answer.

1. Substance that in low concentration inhibit the growth of microorganism are called:  
(a) Antibiotics (b) Vaccine (c) Drugs (d) Antigen
2. The protein present in microtubules is:  
(a) Keratin (b) Tubulin (c) Myosin (d) Actin
3. The enzyme which contain both protein & non-protein parts in called:  
(a) Proteoenzyme (b) Apoenzyme (c) Holoenzyme (d) Co-enzyme
4. Role of breathing is increased due to increase in concentration of \_\_\_\_\_ in the blood:  
(a) CO<sub>2</sub> and H<sup>+</sup> (b) O<sub>2</sub> and H<sub>2</sub> (c) CO<sub>2</sub> and Urea (d) CO<sub>2</sub> and O<sub>2</sub>
5. These are irregular, nulleated cells and are destroyed within few (20-30) hours:  
(a) Leucocytes (b) Erythrocytes (c) Platelets (d) All of these
6. Groups of several species living and interacting in the same area form a:  
(a) Population (b) Community (c) Ecosystem (d) Biosphere
7. These are abundant in cells that are metabolizing alcohol and are believed to help in detoxification of alcohol:  
(a) Peroxisome (b) Dictyosome (c) Lysosome (d) Glyoxysome
8. Systole refer to the contraction of the:  
(a) S.A nod (b) Major arteries (c) Atria & ventricle (d) A.O.T
9. Glycolipids & Lipoprotein are important components of:  
(a) Protein (b) Nucleic acid (c) Bone marrow (d) Cellular membrane
10. Nucleic acid which also serve as enzymes are:  
(a) Nucleo protein (b) Ribozyme (c) Ribosome (d) Co-enzyme
11. The nucleic acid consist of \_\_\_\_\_ carbohydrates:  
(a) Triose (b) Hexose (c) Pentose (d) N.O.T
12. Cholesterol, sex hormone, vit-A are examples of:  
(a) Steroids (b) Carotenoids (c) Terpenoids (d) N.O.T
13. When \_\_\_\_\_ bond is present b/w carbon atoms, such types of compounds are saturated compounds:  
(a) Double (b) Triple (c) Single (d) N.O.T
14. The study of structure, function and composition of cell is called \_\_\_\_\_:  
(a) Genetic engineering (b) Anatomy (c) Cell biology (d) Histology
15. The intelligent guess of a scientist in form of statement is called \_\_\_\_\_:  
(a) Theory (b) Hypothesis (c) Deduction (d) N.O.T
16. Prokaryotic cell do not contain \_\_\_\_\_:  
(a) Ribosome (b) Nucleus  
(c) Membrane bound nucleus (d) Histology
17. The number of chamber in heart of frog \_\_\_\_\_:  
(a) Five (b) Two (c) Three (d) Four
18. Closely related species are grouped together into \_\_\_\_\_:  
(a) Order (b) Family (c) Genus (d) N.O.T
19. Multi-cellular organisms having no cell wall and no chlorophyll are \_\_\_\_\_:  
(a) Plants (b) Animals (c) Fungi (d) Bacteria
20. Tuberculosis is caused by \_\_\_\_\_:  
(a) Virus (b) Bacteria (c) Worm (d) All of them
21. The winter sleep of frog is known as \_\_\_\_\_:  
(a) Aestivation (b) Hibernation (c) Both (d) N.O.T
22. Nucleic acid which also serve as enzymes are:  
(a) Co-enzyme (b) Nucleo protein (c) Ribozyme (d) Ribosome

THE END



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**SECTION-B**  
**Short Questions**

**Marks: 12**

**Note:** Attempt any **FOUR** questions. Each question carries 03 marks.

- Q2. Distinguish between any one.  
(a) Prokaryote & Eukaryote (b) Plasma memb: & cell wall
- Q3. What is fluid mosaic model?
- Q4. Define any two  
(a) Cinocytosis (b) Hydrolysis  
(c) Nucleotide (d) Molecular Biology
- Q5. At a certain high substance concentration the reaction of enzyme slow down or stop why?
- Q6. In which type of cells S.E.R is found mostly and what are its function?
- Q7. Describe the groups of protein associated with plasma membrane.
- Q8. Why sac like gut is considered as incomplete?

**SECTION-C**  
**Long Questions**

**Marks: 08**

**Note:** Attempt any **ONE** question each question carries marks (Part-A 5 marks and Part-B 3 marks).

- Q10(a) Which phylum has water vascular system? Give characteristics and affinities of phylum?
- Q10(b) What are mammals? Define sub classes of mammals?
- Q11(a) What are the components of cytoskeleton? What are their structure and function?
- Q11(b) How second line of defense works after invasion of micro organism?

**The End**