



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

**Excellence-Equity-Empathy  
ZOOLOGY MODEL PAPER**

Time: 01:30 hrs

XII (Pre-Medical)

Marks: 43

**SECTION-A**

Marks: 22

**MULTIPLE CHOICE QUESTION (MCQ'S)**

- Q1. Choose the correct answer for each from the given options.**
- i. Glands are located on top of kidney are called  
(a) Thymus (b) Adrenal gland (c) Pancreas (d) Thyroid
  - ii. The outer region of kidney is called as  
(a) Renal pelvis (b) Renal medulla (c) Renal pyramid (d) Renal cortex
  - iii. Skeleton is totally absent in  
(a) Sponge (b) Star fish (c) Fish (d) Amoeba
  - iv. Bones of ankle are called  
(a) Tarsal (b) Carpal (c) Meta tarsal (d) Meta carpal
  - v. Each myosin filament is surrounded by  
(a) 4 actin filament (b) 6 actin filament (c) 8 actin filament (d) NOT
  - vi. Bone of skull are joined by  
(a) Fixed joint (b) Sliding joints (c) Pivot joint (d) Hinge joint
  - vii. It is not way of obtaining heat by an organism  
(a) Solar radiation (b) Metabolism (c) muscle contraction (d) Sweating
  - viii. The most abundant component of urine is  
(a) Urea (b) Water (c) Ammonia (d) Uric acid
  - ix. Hypothalamus, amygdale & hippocampus are part of  
(a) limbic system (b) thalamus (c) reticulum formation (d) NOT
  - x. Knee-jerk is an example of  
(a) Taxes (b) reflex (c) learning (d) insight learning
  - xi. End of fertility in a human female is  
(a) Puberty (b) Ovulation (c) Menses (d) Menopause
  - xii. Ovulation is initiated by hormone  
(a) FSH (b) LH (c) Estrogen (d) progesterone
  - xiii. Rise in body temperature in case of heat stroke is an example of  
(a) Positive feed back (b) Negative feed back  
(c) Both (d) None of these
  - xiv. Set point of thermoregulation in human is  
(a) 30 C (b) 37 C (c) 98.6 F (d) both b and c
  - xv. Which of the following hormones causes development of male characteristics  
(a) Androgen (b) Thyroxin (c) Adrenaline (d) Estrogen
  - xvi. A more or less genetically isolated population is called  
(a) Stable (b) Genetic drift (c) Genetic equilibrium (d) N.O.T
  - xvii. Which of the following causing depletion of O<sub>3</sub>  
(a) CL<sub>2</sub> (b) O<sub>2</sub> (c) N<sub>2</sub> (d) N.O.T
  - xviii. Total number of bones in human limbs  
(a) 90 (b) 120 (c) 30 (d) 60
  - xix. Depolarization and re-polarization of neurolemma occur during  
(a) RMP (b) Action potential (c) Synapse (d) N.O.T
  - xx. The coelom is formed by splitting the following segment of mesoderm  
(a) Lateral plate (b) Mesomere (c) Hypomere (d) Epimere
  - xxi. The role of which of the following who altogether neglected by Darwin  
(a) Variations (b) Minor variations (c) Mutations (d) A.O.T
  - xxii. Zoology is the branch of \_\_\_\_\_  
(a) Science (b) Electrical (c) Biology (d) N.O.T

The End



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**SECTION-B**

Marks: 12

**Short Questions**

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

**Q2. Distinguish between any one.**

- i. Renewable & non renewable resources
- ii. Darwin & Lamarck Theory

- Q3. Women after menopause commonly suffer deformity of bones, name condition & also reason.**
- Q4. How do blood vessels in the skin help regulate body temperature during hot and cold external condition?**
- Q5. Draw a diagram of sarcomere and label its parts.**
- Q6. What does negative feed back refer to?**
- Q7. Why kidney act both osmoregulatory and excretory organ?**
- Q8. What is the common name of osmoexcretory cells of flatworms & why there are called so?**

**SECTION-C**  
**Long Answers**

Marks: 09

**Note: Attempt any one question. Each question carries 08 marks (part-A 5 marks and Part-B 3 marks)**

- Q10(a) What is joint? Describe different types of joints.**
- Q10(b) Define liver? Describe at least two functions.**

- Q11(a) What is nerve impulse? Explain the mechanism of transmission of nerve impulse?**
- Q11(b) Describe structure of nephron.**

**The End**