

**BOARD OF INTERMEDIATE EDUCATION, A.P, HYDERABAD****MODEL QUESTION PAPER- ZOOLOGY II YEAR (W.E.F.2013-14)****Time: 3 Hours****Max.marks:60****SECTION-A****Answer all the questions (Very Short Answer Type)****10 X 2 =20**

1. Define chyme and chyle ?
2. Name the muscles that help in breathing movement of man ?
3. How many pace makers are present in the human heart ? What are they ?
4. What is a sarcomere ?
5. Name the meninges of the mammalian nervous system from the outer most to the inner most ?
6. Write the functions of Leydig cells and Sertoli cells ?
7. Distinguish between 'Humoral immunity' and 'Cell mediated immunity'.
8. How is acromegaly caused ?
9. Write any four important advantages of poultry farming ?
10. What is the principle involved in X ray radiography.

**SECTION-B****Answer any Six Questions (Short Answer Type)****6 X 4 =24**

11. Explain the process of digestion in the stomach.
12. What are the bio-chemical changes that occur in a muscle during contraction.
13. Write a brief note on Morphological Evidences in favour of organic evolution?
14. Draw a diagram of internal structure of testis.
15. Write a brief note on different types of immunities ?
16. Explain the following phenomena.  
a) Turners Syndrome. b) Down Syndrome.
17. How does Hardy Weinberg principle explain equilibrium of allelic frequency ?
18. What is the importance of MRI in diagnostic imaging ?

**SECTION-C****Answer any Two Questions (Long Answer Type)****2 X 8 =16**

19. How does human heart function to pump blood to the body parts ?
20. Describe the female reproductive system with the help of a labelled diagram ?
21. Describe the determination of sex by Genetic Balance theory of Bridges in Drosophila.

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