



BIOLOGY

BOOKS - VGS PUBLICATION-BRILLIANT

ZOOLOGY MODEL PAPER 13

Section A

1. Define chyme .



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2. Name the muscles that help in normal breathing movements.



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3. How many pace makers are present in the human heart ? What are they ?



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4. What is a sarcomere?



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5. Name the meninges of the mammalian nervous system from the outer most to the inner most .



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6. Write the functions of Leydig cells and Sertoli cells .



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7. Distinguish between 'Humoral immunity' and 'Cell mediated immunity' .



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8. How is acromegaly caused ?



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9. Write any four important advantages of poultry farming .



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10. What is the principle involved in X-ray radiography ?



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Section B

1. Explain the process of digestion in the stomach .



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2. What are the bio-chemical changes that occur in a muscle during contraction ?



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3. Write a brief note on Morphological Evidences in favour of organic evolution .



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4. Draw a diagram of internal structure of testis .



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5. Write a brief note on different types of immunities .



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6. Explain the following phenomena .

a) Turner's Syndrome .

b) Down Syndrome .



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7. How does Hardy Weinberg principal explain equilibrium of allelic frequency ?



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8. What is the importance of MRI in diagnostic imaging ?



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1. How does human heart function to pump blood to the body parts ?



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2. Describe the male reproductive system of frog with the help of a labelled diagram.



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3. Describe the determination of sex by Genetic Balance theory of Bridges in *Drosophila* .



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