3.C2019 ZOOLOGY Time: 1 Hours 45 Minutes SECTION B' (SHORT-ANSWER QUESTIONS)(22) NOTE: Answer 11 questions in all. Select six question Reasoning questions and five from Reasoning questions. **REASONING QUESTIONS:** How does Osmoregulation take place in Trout fish? 2.(i) Why-do skeletal muscles show fatigue after hear (ii) exercise? How does Abnormal development take place in man? (iii) Why is Archaeopteryx considered a link between (iv) Raptiles and Birds? How is Ozone layer being depleted? (v) Why is DNA fingerprinting performed? (vi) Why are identical twins exactly similar while Fratter (vii) twins are dissimilar? Why is Nervous co-ordination called the quickest communication within the body? How does pancreas regulate the amount of blood sage (ix) NON-REASONING QUESTIONS: What are Vestigial organs? Write their examples. (x) Write a note on Smooth muscles or Cardiac muscles (xi) Write a note on Lithotripay. Define Receptors, Classify them with examples (xiii) basis of stimul Label the marked parts in the given diagram: MANA Plasma membrane activated State the significance of Genetically engineered bacteria (XV) What are the three main causes of Skeletal deformities? (xvi) Give one example of each with symptoms. (xvii) Draw labeled diagrams of different Spermatogenesis or Oogenesis. SECTION'C' (DETAILED-ANSWER QU NOTE: Answer 2 question from this section(14) Explain the Regulatory functions of the human Kidney 3. and draw a labeled diagram of nephron. OR Describe the structure and functions of different parts of the human Brain. (Diagram is not required). Describe the mechanism of contraction in Skeletal muscle fibre and drew neat and labeled diagram of

contraction and relaxation.

5. Edxplain the various steps involved in Recombinant

OR Describe with the help of labeled diagram the human Female reproductive system