Cri-du-chat syndrome

Down syndrome.

5)

NOTE: 1. All questions are compulsory. 2. Figures to right indicate marks. 3. Draw labelled diagrams wherever necessary. Q I Answer the following (Any Two) (20)1) Give a brief account of sample preparation for Electron Microscopy. 2) Define Electrophoresis. Add a note on Horizontal gel Electrophoresis. 3) Elaborate on the types of Paper Chromatography. 4) Explain: Construction & working of SEM. Q II Answer the following (Any Two) (20)Differentiate between Mitosis & Meiosis. What is RNA? Explain types of RNA. 3) Explain Ultrastructure of mitochondria with neat and labelled diagram. What are peroxisomes and glycosomes? Explain their structure in detail. (20)Q III Answer the following (Any Two) 1) What is chromosomal aberration? Give a detailed account on Duplication. 2) Give a brief account of Plastid transmission in plants. 3) What are Autopolyploids? Add a note on triploids & tetraploids. 4) Explain types of translocation; give one example of genetic effects of translocation. Q IV Write short notes on (Any Three) (15)1) Prophase I Cell cycle 2) Advantages & disadvantages of Electron Microscopy. 3) Thin Layer Chromatography 4)