

1. Explain Human Embryo Development.
2. Explain Ovarian cycle
3. Explain some common problems of Adolescence
4. Write adaptations to water scarcity and high temperature in plant.
5. Explain Pectoral girdle and bones of Forelimbs.
6. Describe the process occurred in cytoplasmic matrix of Mitochondrion. (Chart is required)
7. Why it is said that Bio-pesticides and Bio-fertilizers are better in comparison to chemical pesticides and chemical fertilizers respectively?
8. Explain the effect of changing concentration of atmospheric CO<sub>2</sub> on respiration and photosynthesis.
9. Explain Human Embryo development after Morula stage.
10. Explain Negative feed-back regulation. Explain mode of action of Peptide hormones.
11. Give name of any two non-biodegradable waste and explain how to control the Industrial Pollution.
12. Write the range of Regeneration in any four animals and describe type of Regeneration.
13. Describe the pioneer stage of Hydroseric succession and Xeroseric succession.
14. Draw T.S. of Anther and explain structure of Pollen grain and Embryo sac.
15. Explain Fertilization in plants. (Diagram is necessary)
16. Draw a labelled diagram showing circulation path in human heart. Explain rhythm and regulation of Heart-beat.
17. Draw a labelled diagram of internal structure of Kidney and explain any two phases of urine formation.
18. Draw a chart of Glycolysis and explain Dephosphorylation and also write the equation.
19. Draw diagram of hind limb along with Pelvic girdle and describe Pelvic girdle.

20. Define Ecological Efficiency. Give four formulae to measure it.

