

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES (An Autonomous Institution) RAJAMPET, ANDHRA PRADESH DEPARTMENT OF HUMANITIES AND SCIENCES TITLE OF THE COURSE: LIFE SCIENCES FOR ENGINEERS

Dr. SHAIK SADAK BASHA, M.Sc, B.Ed, Ph.D., (CSIR- RA-New Delhi, PDF-Malaysia)

- 1. Describe meant by classification? Write the importance of Classification?
- 2. Explain the differences between Plant cell and Animal cell? Describe is mitochondrion? Write their structure and important functions and draw the labelled diagram?
- 3. Describe the types of cells and write the differences between prokaryotes and eukaryotes cells with labelled diagrams?
- 4. Write the characteristics of cell and explain structure and important functions of nucleus and ribosome's and draw the labelled diagram?
- 5. What is cell division? Describe the mitosis cell division process with labelled diagrams?
- 6. What is cell division? Describe the meiosis cell division process with labelled diagrams?
- 7. Explain the Glycolysis pathway and importance?
- 8. Explain the reaction of Krebs/TCA cycle?
- 9. What is an exocrine gland and explain any four endocrine glands?
- 10. Describe of the structure and functions of the brain of man?
- 11. Define the genetics? Explain the Mendel's Laws?
- 12. Describe the autosomal abnormalities in human?
- 13. Explain the various steps DNA finger Printing and applications?
- 14. Describe the Recombinant Vaccines?

- 15.Define the animal cloning? What are the potential applications of cloning animals?
- 16. What is Parasitism? Explain *Plasmodium vivax* life cycle?
- 17. What is Parasitism? Explain Wuchereria bancrofti life cycle?
- 18. Write about the procedure involved in MRI and PET scan?