BT207

Question Bank (for 4 classes held on held on 5th and 6th April)

- 1. Which expression system will you choose and why, given a protein type?
- 2. What are the basic characteristics of different host system for recombinant protein production?
- 3. What are the limitations of mammalian expression vector?
- 4. State various types of plant expression vector?
- 5. How Ti plasmid of Agrobacterium Tumefaciens is exploited as expression vector?
- 6. State three most important feature of Ti plasmid?
- 7. Is virulence gene required if you want to use Ti plasmid as an expression vector and why?
- 8. Cloning Vs expression vector?
- 9. What are the modifications we do in natural Ti plasmid when used it as an expression vector?
- 10. Types of DNA in bacteria with examples?
- 11. Does fungus have plasmid?
- 12. Summaries the steps to create genomic DNA library?
- 13. What kind of cutter will you choose for creating genomic DNA library and why?
- 14. What type of vectors will you consider for creating genomic DNA library? Support your answer with a few examples.
- 15. What type of digestion would you prefer for genomic DNA library creation and why?
- 16. How to calculate probability of finding a particular gene in a given sequence?
- 17. Choose the incorrect statement for cDNA libraries
 - a. They constitute of DNA copies produced from the RNA sequences, usually mRNA.
 - b. They represent expressed sequences.
 - c. Introns are not represented.
- 18. In comparison to cDNA library what additional information genomic DNA library possesses?
- 19. List the enzymes used for creating genomic DNA libraries?
- 20. What do you mean by in-frame protein fusion?