

## BT 207

### BT-207 Questions (For classes held on 11<sup>th</sup> and 12<sup>th</sup> April)

1. What is fusion protein? What is its need?
2. What are in-frame sequences?
3. What is open reading frame? How many reading frames are possible for a given sequence?
4. When a reading frame is called as ORF?
5. What type of mutation can effect fusion protein expression?
6. Explain point mutation and its effect on protein expression?
7. What are the applications of fusion protein expression?
8. What are the applications of fusion protein with GFP?
9. What is GFP? What are their applications?
10. What is FACS? What are the applications of FACS?
11. Describe the approach for recombinant production of insulin when *E.coli* used as an expression system?
12. Why formation of disulfide bond during protein synthesis is not possible in cytoplasm?
13. Which approach will you adopt when going for more efficient and convenient large production of protein?
14. List the advantages of yeast expression system for recombinant protein production?
15. What factors make plants as a choice for protein expression system?
16. What are the advantages of using oil bodies in plants as storage organelle during protein expression?
17. What is the advantage of Ti plasmid over normal plasmid?
18. What do you mean by the term "Transgenic"?
19. Difference between recombinant and transgenic protein?
20. Give some examples of transgenic plants?
21. Where CRY protein is present and explains its mode of action?
22. Disadvantages of transgenic crop (BT brinjal)?