BT207 Assignment Question for classes 10th, 11th and 12th of January 2023

- 1. What is Engineering?
- 2. Why do we need to study/understand the genome of an organism?
- 3. What are the different types of DNAs found in organisms?
- 4. What is a gene?
- 5. What is the physical significance of a gene?
- 6. What is the chemical significance of a gene?
- 7. What are the experiments which showed that the DNA is the genetic material.
- 8. What is the experiment which explained the replication of DNA.
- 9. What are the different factors responsible for evolution?
- 10. What is strain engineering?
- 11. What are the applications of genetic engineering?
- 12. Name 5 genetically modified organisms.
- 13. What is transformation?
- 14. Why Nitrogen is not a good choice to be used for radiolabeling in the Hershey-Chase Experiments?
- 15. What is the physical structure and features of a gene.
- 16. Are all sequences of DNAs genes? Explain.
- 17. When will you call a sequence of DNA a gene?
- 18. Explain different types of genes.
- 19. When do we call a sequence of DNA as gene?
- 20. How would you physically and chemically confirm a successful clone?
- 21. Define codon and ORF.
- 22. What kinds of mutations can affect expression of a gene? Explain.
- 23. Will a protein lose its function if there is change in the sequence of its gene? When? Explain.