



THE ANSWERS MUST BE ATTEMPTED ON THE ANSWER SHEET PROVIDED

Q.1. Explain the following.

(15x2=30)

1. DRY HEAT STERILIZATION
2. FLOURESCENT MICROSCOPY
3. EPISOMES
4. ACIDOPHILES
5. NECROSIS
6. GRAM NEGATIVE BACTERIA
7. ARCHAEA
8. *Agrobacterium tumefaciens*
9. PLEOMORPHIC BACTERIA
10. COMPLETE GROWTH MEDIUM
11. CYANOBACTERIA
12. COMPETENCY
13. COCCI
14. PROPHAGE
15. THERMOPHILES

Q.2. Answer the following questions.

(5x6=30)

- i. Explain in detail the process of TRANSDUCTION. Draw diagram also.
- ii. Describe the morphology and LYSOGENIC lifecycle of VIRUSES. Draw diagram also.
- iii. Describe the importance and types of ELECTRON MICROSCOPY.
- iv. Write about the classification of BACTERIA on the basis of oxygen requirement.
- v. Explain in detail various phases of BACTERIAL GROWTH CYCLE.