



B.Sc BIOTECHNOLOGY II YEAR
IV- SEMESTER
MICROBIOLOGY & IMMUNOLOGY
QUESTION BANK FOR PRACTICALS

Duration= 2 hours

Total= 25M

I. MAJOR PRACTICALS

1x10=10M

1. Isolation of bacteria by streak, spread and pour plate methods
2. Simple staining and differential staining (gram staining)
3. Bacterial growth curve
4. Microhaemagglutination (Eg: ABO & Rh blood grouping)
5. Differential leukocyte count
6. Single radial immunodiffusion
7. ELISA

II. MINOR PRACTICALS

1x5 = 5M

1. Isolation of bacteria from soil
2. Cell viability test (Trypan blue test)
3. Sterilization methods
4. Preparation of microbiological media (bacterial, algal & fungal)

III. SPOTTERS / EXHIBITS

5x1 = 5M

1. Display of algal, bacterial and Fungal media
2. Display of sterilization equipment
3. Images of different microscopes
4. Mycobacterium, Hepatitis
5. Micro algae, fungi images
6. Plaque assay
7. Cells and organs of immune system
8. Structures of immunoglobulins
9. Monoclonal antibody production
10. HLA, H2 complex
11. TCR & Ternary Complex
12. Images of SLE, RA

IV. RECORD & VIVA

5M

Handwritten signature and date: 28/4/18