

**B.Sc. MICROBIOLOGY - QUESTION BANK**

**PAPER V. – APPLIED MICROBIOLOGY**

**I. Experiment Questions**

**(Marks 12)**

1. An industrial/sewage water sample is provided to you. Find out the amount of dissolved oxygen present in it and determine the B.O.D of the sample.
2. Enumerate the total Rhizosphere microflora and identify any two organisms (Bacteria/ Fungi) from the given plate by cultural and staining properties.
3. Enumerate the total phyllosphere microflora and identify any two organisms (Bacteria/ Fungi) from the given plate by cultural and staining properties.
4. A water sample was inoculated for presumptive test and tubes with growth are provided. Find out the coliform count by MPN method and report your result.
5. Identify the air microflora from the given plate by cultural and staining properties.
6. Identify the bacteroid zone by section cutting of root nodule of a leguminous plant provided to you
7. Stain the given root segments and identify the VAM under microscope. Report your observations.

**II. Spotters**

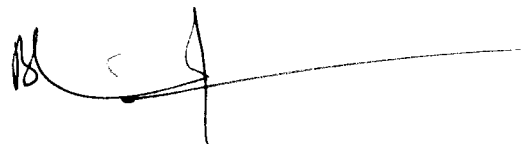
**(Marks 2x4= 8)**

8. YEMA medium with Rhizobium
9. VAM
10. Phyllosphere
11. MPN tubes
12. EMB plates
13. Sodium malate medium for Azospirillum
14. Root nodules
15. Tikka Disease of groundnut
16. Citrus canker
17. Little leaf of brinjal
18. Bhendi yellow vein mosaic
19. Tomato leaf curl
20. Powdery mildew
21. Rust
22. Smut

**III. Record**

**(Marks 5)**

JL  
27/10/18



**B.Sc. MICROBIOLOGY - QUESTION BANK**

**PAPER VI- IMMUNOLOGY (E-1)**

**I. Experiment Questions**

**(Marks 12)**

1. Determine the blood group and Rh type of the given blood sample & report the result.
2. Estimate the amount of blood haemoglobin using Haemoglobinometer of the given blood sample & report the result.
3. Determine the total WBC count of the given sample & report the result.
4. Determine the total RBC count of the given sample & report the result.
5. Perform the Differential count of blood Leucocytes of the given sample & report the result.
6. Perform the quantitative WIDAL test of the given blood (serum) sample of the patient provided to you & report the result.
7. Perform the quantitative VDRL test of the given blood (serum) sample of the patient provided to you & report the result.

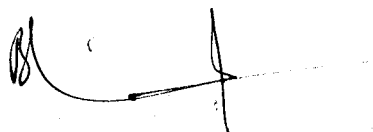
**II. Spotters**

**(Marks 2x4= 8)**

1. Haemoglobinometer
2. Haemocytometer
3. Blood Grouping Kit
4. Leishmans Stain
5. RBC Diluting Fluid
6. WBC Diluting Fluid
7. WIDAL kit
8. VDRL kit
9. Anticoagulant
10. Ouchterlony Double Diffusion Test

**III. Record**

**(Marks 5)**



27/10/18