

**Dr. Babasaheb Ambedkar Marathwada University**  
Faculty of Science  
B.Sc.I Year Practical Examination  
**MICROBIOLOGY**  
**PAPER III (OLD)**

Time : 10 : 00 am to 1 : 00 pm (on both days)

Max. Marks – 100

Centre : \_\_\_\_\_

Date : \_\_\_\_\_

Batch No. \_\_\_\_\_

Duration – Two days

- Note : i) Students absent on first day will not be permitted for practicals on Second day.  
ii) Wearing laboratory coat is mandatory

Q. 1 & 2	Major Practicals	- each carrying 15 Marks	(30 Marks)
Q. 3 & 4	Minor Practicals	- each carrying 10 Marks	(20 Marks)
Q.5	Spotting (5 Spots)	- each carrying 05 Marks	(25 Marks)
Q. 6	Viva-Voce	-	(15 Marks)
Q.7	Record –Book	-	(10 Marks)

Questions to be asked in Major Practicals

- Isolation of microorganisms from .....
- Water analysis (Qualitative / Quantitative).
- Isolation of *Rhizobium* Spp
- Isolation of *Frankia*.
- Phenol Coefficient.

Questions to be asked in Minor Practicals

- Microscopic examination of bacteria (any one)
- Preparation of culture media (any one)
- Winogradsky Column.

Spotting : -

Spots should include questions or pre-performed practical material based on the practical performed by students but not covered during examination.

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**MICROBIOLOGY**  
**PAPER IV (OLD)**

Time : 2 : 00 pm to 5 : 00 pm (on both days)

Max. Marks – 100

Centre : \_\_\_\_\_

Date : \_\_\_\_\_

Batch No. \_\_\_\_\_

Duration – Two days

- Note : i) Students absent on first day will not be permitted for practicals on Second day.  
iii) Wearing laboratory coat is mandatory

Q. 1 & 2	Major Practicals	- each carrying 15 Marks	(30 Marks)
Q. 3 & 4	Minor Practicals	- each carrying 10 Marks	(20 Marks)
Q.5	Spotting (5 Spots)	- each carrying 05 Marks	(25 Marks)
Q. 6	Viva-Voce	-	(15 Marks)
Q.7	Record –Book	-	(10 Marks)

Questions to be asked in Major Practicals

- Estimation of DNA by measurement of sugar.
- Estimation of RNA by measurement of sugar.
- Determination of antibiotic resistance of bacteria.
- Estimation of protein by Biuret / Folin Lowry method.

Questions to be asked in Minor Practicals

- Estimation of blood glucose.
- Estimation of serum cholesterol.
- Measurement of chlorine / Phosphorous / Nitrates in water.

Spotting : -

Spots should include questions or pre-performed practical material based on the practical performed by students but not covered during examination.

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