

FORMAT FOR PRACTICAL EXAM

Dr. Babasaheb Ambedkar Marathwada University
Faculty of Science
B.Sc. III Year Practical Examination
MICROBIOLOGY
PAPER XI

Time : 10 am to 4 pm.
Duration – 2 days 6 hours
Batch No.

Max marks – 100
Date/...../
Centre

Q.1. Isolation of genomic DNA from E.coli 15

OR

Determination of one step growth curve of bacteriophage.

Q.2. U.V. damage and photoreactivation. 15

OR

Replica plating for isolation of streptomycin. Resistance spontaneous, mutants of E.coli.

Q.3. Isolation of plasmid DNA from E.coli. 15

OR

Transformation of complete cells of E.coli. using plasmid DNA as a vector.

Q.4. Separation of proteins using agarose gel electrophoresis 10

OR

Restriction analysis of E.coli DNA

Q.5. Spotting 25

i) Any option not asked from Q.1 and Q.2

ii) Any option not asked from Q.3 and Q.4

iii) Instrument of use in molecular biology.

iv) Dye / Regent / Chemical

v) Buffers / Restriction enzymes / DNase / RNase

Q.6. Viva – Voce 15

Q.7. Record – Book 10

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- Q.1. Bacteriological analysis of food products using SPC method 15
OR
Isolation of microorganisms from common food items.
OR
Bioassay of antibiotics – Penicillin / Vit.-B-12 / Folic acid.
- Q.2. Screening of the following microorganisms from Soil-Starch 15
hydrolysers / organic acid Producer / antibiotic procedures.
OR
Study of enzymes.
OR
Microbiological examination of Pharmaceutical / food
Products as per IP/USP/BP
- Q.3. Detection and estimation of fermented Products. 10
Ethanol/Glutamic acid / Citric acid / Amylase
OR
Estimation of reducing sugars by sumner's method
- Q.4. Microbiological analysis of milk – MBRT / Resazurin/Phosphate test 10
OR
Chromatographic separation and identification of Fermented Products.
- Q.5. Sporting 25
i) Direct microscopic count
ii) Enzymes
iii) Any option not asked from Q.1.
iv) Any option not asked from Q.2
v) Any option not asked from Q.3. and Q.4
- Q.6. Viva – Voice 15
- Q.7. Record – Book 10