

MAHATMA GANDHI UNIVERSITY, KOTTAYAM
FIFTH SEMESTER MGU-UGP (HONOURS) REGULAR PRACTICAL EXAMINATION, 2026
BIOTECHNOLOGY – DSC A
MG5DSCBTG300 – RECOMBINANT DNA TECHNOLOGY
Practical Examination

Time: 3 Hours

Maximum Marks: 35

1. Major Experiment

15 marks (CO5)

Isolate plasmid DNA from the given strain and confirm its presence by Agarose Gel Electrophoresis.

Isolation

Principle and procedure : 4 marks

Performance : 5 marks

AGE

Performance- loading, gel run : 3 marks

Result and interpretation : 3 marks

2. Minor Experiment

10 marks (CO5)

Write the principle and procedure of RFLP/RAPD

Principle : 4 marks

Procedure : 6 marks

3. Viva-voce

5 marks (CO5)

4. Record (Neatness, with complete experiments)

5 marks (CO5)

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FIFTH SEMESTER MGU-UGP (HONOURS) REGULAR PRACTICAL EXAMINATION
BIOTECHNOLOGY - DSC A
MG5DSCBTG301 - ENZYME TECHNOLOGY
Practical- Model question Paper

Time: 3 Hours

Maximum Marks: 35

1. Major Experiment -15 marks (CO5)

Determine the activity of the enzyme amylase present in the given sample

Principle	5 marks
Procedure	5 marks
Calculation and Result	3 marks
Graph	2 marks

2. Minor Experiment -10 marks (CO5)

Perform enzyme immobilization using the calcium alginate entrapment method

Principle	3 marks
Procedure	2 marks
Performance (Bead preparation)	3 marks
Result	2 marks

3. Viva-voce -5 marks (CO5)

4. Record - 5 marks (CO5)