

MONAD UNIVERSITY HAPUR (UP)
(SCHOOL OF AGRICULTURE & APPLIED SCIENCES)
DEPARTMENT OF BIOTECHNOLOGY

Course: M.Sc. in Biotechnology

Subject Name: Genetic Engineering

Semester: III

Sub. Code:

Assignment No: 2

Due date of submission: 10.11.2016

Instruction

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HOD within the due date.
3. Write your Name, Programme, and Enrolment No. clearly at the top of the page.

Q.1.

- (a) How to construct a cDNA library?
- (b) What are applications of yeast two hybrids?

Q.2.

- (a) Explain the different types of PCR.
- (b) Explain the chemical method of DNA sequence.

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BIOTECHNOLOGY**

Course: M. Sc. Biotechnology

Subject Name: Environmental Engg.

Semester: III

Sub. Code:

Assignment No:

2

Due date of submission: 10.11.2016

Instruction

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Q.1

(a) Define the biomass found in waste water, also explain the aerobic process for the same.

(b) What do you mean by sludge? How we can differentiate the sludge from activated sludge.

Q.2.

(a) Explain treatment methods of waste water.

(b) Explain the distillery scheme for waste water treatment.

**MONAD UNIVERSITY HAPUR (UP) (SCHOOL OF
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Course: M. Sc. Biotechnology

Subject Name: Microbial Biotech

Semester: III

Sub. Code:

Assignment No:

2

Due date of submission: 10.11.2016

Instruction

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Q.1

- (a) Explain the differences between bioreactors & fermenters.
- (b) Write a note on designs of bioreactors.

Q.2.

- (a) Explain about the batch & Continuous culture.
- (b) Write an essay on nitrogen fixation.

**MONAD UNIVERSITY HAPUR (UP) (SCHOOL OF
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BIOTECHNOLOGY**

Course: M. Sc. Biotechnology
Subject Name: Plant & Animal Biotech
Semester: III
Sub. Code:
Assignment No:

2

Due date of submission: 10.11.2016

Instruction

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3. Write your Name, Programme, and Enrolment No. clearly at the top of the page.

Q.1

- (a) Draw a suitable or correct map of plant genome.
- (b) Explain the structural organization of plant genome.

Q.2.

- (a) What do you mean by natural genetic engineer? Explain about one natural genetic engineer with suitable diagram.
- (b) Write about the vectorless gene transfer in plants.