



(Department of Agriculture)

Programme : M.Sc. Agriculture (Genetics & Plant Breeding IInd Sem.)

Course Name : Biotechnology for crop improvement

Course code : MSAGGPB-121

Assignment No : 2

Due date of submission: 22/04/2019

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) what do you know about nanotechnology? How can use in nanotechnology in crops?

(b) Explain bio-informatics tools.

Q.2:-

(a) Define hybrid breeding? How can developed mole sterility line through biotechnology?

(b) What do you know about molecular farming? Explain it.

Department of Agriculture

Programme: M.Sc. Agriculture (Genetics & Plant Breeding IInd Sem)

Course Name : Cell Biology and Molecular Genetics

Course code: MSAGGPB-122

Assignment No: 2

Due date of submission: 22/04/2019

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) Explain mechanisms of rDNA.
- (b) Write down definition of gene application. Explain its significance

Q.2:-

- (a) Explain properties of nucleic acid transcription factors.
- (b) Write down role of genetic code and regulation of protein synthesis.

Department of Agriculture

Programme: M.Sc. Agriculture (Genetics & Plant Breeding IInd Sem)

Course Name: Mutagenesis and Mutation Breeding

Course code: MSAGGPB-123

Assignment No: 2

Due date of submission: 22 .04 .2019

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) Explain the use of mutagens in generation.
- (b) Explain mutation breeding? Explain solution producers in mutation breeding.

Q.2:-

- (a) Explain the pleiotrophy & linkage.
- (b) Explain the comparative evaluation of physical and chemical mutagens for creation variability in series.

Department of Agriculture

Programme: M.Sc. Agriculture (Genetics & Plant Breeding IInd Sem)

Course Name: Principles of Quantitative Genetics

Course code: MSAGGPB-124

Assignment No: 2

Due date of submission: 22 .04.2019

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) Define market assisted solution (MAS).
- (b) What do you know about adoptability stability?

Q.2:-

- (a) Define D2 analysis .Explain heritability and genetic advanced.
- (b) What is correlation? Explain Path analysis and regression analysis.