

PG
M.Sc. Semester-I Examination, 2021
GENETICS AND PLANT BREEDING
PAPER: GPB 105
(MUTAGENESIS AND MUTATION BREEDING)

Full Marks: 20

Time: 1 Hour

Answer any TWO questions from the following:

2X10 = 20

1. Give a short note on mutation breeding. Mention the different observation of mutagen in M1 generation. Explain the effects- lethality and chimeras. 3+2+5
2. Define mutagen. Mention the different types of mutagens. Explain the mutational effect by Ionising and non-ionizing radiations. 2+3+5
3. Write a short note on base analogues. Schematically represent the DNA repair mechanism to counteract the mutation effect. 5+5
4. Define cell cycle? Mention different check points of cell cycle and explain their importance. 2+3+5
5. Write short notes of the following: 2 × 5
 - A. Eco-tilling
 - B. Allele mining
