**Roll No……..…..** **Total No. of Printed Pages: 1**

**Total No. of Questions: [09]**

**B.Sc. (Hons.) Agriculture (Semester – 4th)**
**PRINCIPLES OF SEED TECHNOLOGY**
**Subject Code: BAGRS1-458**
**Paper ID: 19130136**

**Time: 03 Hours** **Maximum Marks: 60**

**Instruction for candidates:**

1. Section A is compulsory. It consists of 10 parts of two marks each.
2. Section B consist of 5 questions of 5 marks each. The student has to attempt any 4 questions out of it.
3. Section C consist of 3 questions of 10 marks each. The student has to attempt any 2 questions.

**Section – A** **(2 marks each)**

Q1. Attempt the following:

a) What do mean by vigour test.
b) What are genetic purity?
c) What do mean by certified seeds.
d) Write down seed germination.
e) Discuss seed viability.
f) Write down role of IPR.
g) What do mean by seed treatment.
h) Write down the seed packing.
i) What is role of WTO?
j) Discuss seed quality.

**Section – B** **(5 marks each)**

Q2. Describe seed dryers. Also explain different factors affecting seed longevity during storage.
Q3. Define GM crops. Also explain how to detect genetically modified crops by using different method.
Q4. Write down the varietal identification through grow out test in seed
Q5. Define seed and classify different types of seed. Also explain the importance of quality seed.
**Q6.** Define seed certification in your own word. Also explain different phases of certification.

**Section – C** **(10 marks each)**

Q7. Explain importance of world trade organization in seed marketing.
Q8. Write down the role of private sector and their production and marketing strategies in seed industries.
Q9. Define seed treatment. Explain the process of seed treatment and its importance in seed production.