

## **General instructions related to syllabus for online admission tests**

### **(1) Agricultural Biotechnology & Medical Biotechnology:**

- There will be 60 marks multiple choice question (MCQ) comprising two sections A and B. In section A, questions will be covered from (10+2 standard) Physics, Chemistry, Biology and Mathematics. In section B, there will be two choices: students from Life Sciences will opt for B1 and students from Physical Sciences will get B2.
- In case of section B1, there will be total 40 MCQs in the topics covered in the qualifying degree including Molecular Biology, Genetics, Biochemistry, Cell Biology, Biotechnology, Microbiology, Physiology etc. Similarly, MCQs in the section B2 will be covered from the qualifying degree including Physics, Chemistry, Physical Chemistry, Biophysics etc.

### **(2) Post Graduate Diploma in Post-Harvest and Food Technology:**

Multiple choice questions will be asked from the following areas:

- Physics (B.Sc. Level)
- Chemistry (B.Sc. Level)
- Microbiology (B.Sc. Level)
- Food Science and Food Preservation (B.Sc. Level)
- Biological Science (B.Sc. Level)
- Mathematical and Logical Reasoning and Aptitude

### **(3) Genetics and Plant Breeding:**

Current affairs in agriculture, questions from core subject of Genetics and Plant Breeding covered in the Bsc (Agri) like Mendelian genetics, different breeding methods of crop improvement, modern biotechnological approaches towards plant breeding, Population genetics etc.

### **(4) Agriculture & Rural Development:**

- Aptitude test (numerical, verbal and logical reasoning) - 20 marks (COMPULSORY)
- General Agriculture and Rural Development - 20 marks (COMPULSORY)

Questions will be asked on (a) general technologies used in agriculture and allied sectors, (b) agricultural and rural development programmes of the Government of India, and (c) policies, institutions, and regulations related to agriculture and rural development.

- Subject test - 20 marks (ELECTIVE)

The examinee should select one of the three subject areas from (a) Biological Sciences, (b) Social Sciences and Humanities and (c) Natural Sciences

#### **(5) Environment and Disaster Management:**

Basic understanding on the environment and natural disaster; Understanding on the primary causes of climate change; Environmental Pollution (water and air); Exposure to toxic chemicals and its effect on human health; Environmental rules and regulations; Environmental standards and management guidelines; Impact of Population explosion on environment; Awareness on natural disaster and mitigation policies; Application of computers in environmental risk assessment; Contemporary issues related to future climate challenges.

#### **(6) Agronomy:**

Basic Agronomy; Tillage; Agronomy of different crops (Agronomic Management of crops like Cereals, Oilseeds, Pulses, Fibre crops, Sugar crops, Forage crops, etc.); Nutrient management; Irrigation management; Crop production in problem soils; Weed management; Organic farming; Cropping systems; Dryland & Rainfed Agriculture; Integrated Farming System (IFS); Agroforestry.