



Enrollment No.....

Faculty of Agriculture

End Sem (Even) Examination May-2022

AG3CO30 Principles of Seed Technology

Programme: B.Sc. (Hons.) Branch/Specialisation: Agriculture

Duration: 3 Hrs.**Maximum Marks: 50**

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

- Q. i. Ripened ovule of gymnosperms and angiosperms is called- **1**
 1 (a) Embryo (b) Pollen (c) Seed (d) Ovary
- ii. Golden yellow colour tag is given to- **1**
 (a) Breeder seed (b) Nucleus seed
 (c) Foundation seed (d) Registered seed
- iii. Objectives of seed certification includes- **1**
 (a) High quality
 (b) Discontinues supply of varieties to consumers
 (c) Unavailability of varieties to the farmers
 (d) All of these
- iv. Seed vigor is affected by- **1**
 (a) Time of storage (b) Type of seed stored
 (c) Storage environment (d) All of these
- v. Seed which are initial seed of an improved variety with limited quantity is known as- **1**
 (a) Breeder seed (b) Nucleus seed
 (c) Foundation seed (d) Registered seed
- vi. Breeder seed is _____ % pure. **1**
 (a) 99 (b) 100 (c) 70 (d) 80
- vii. GMO means- **1**
 (a) Genetically mutant organisms
 (b) Genetically modifying organisms
 (c) Genetically modified organisms
 (d) None of these
- viii. The ability of seed to delay its germination until the favourable condition is- **1**
 (a) Seed deterioration (b) Seed dormancy
 (c) Seed pathology (d) None of these

[2]

- ix. Genetic engineering can be best described as- **1**
 (a) Application of molecular genetics in agriculture
 (b) Genetics of nitrogen fixing bacteria
 (c) Application of principles of engineering in genetics
 (d) Synthesis of genes in laboratory
- x. Which of the following is important to understand the market demand of a specific product for a small seed company? **1**
 (a) Consumer research (b) Industrial Research
 (c) Market research (d) Empirical Research
- Q. i. Define seed quality. **1**
 2
- ii. Write short notes on genetic purity of seed. **2**
 iii. Give the Characters of good quality seed. **5**
 OR iv. Write about the different classes of seeds. **5**
- Q. i. Define certified seed. **1**
 3
- ii. Write the difference between seed and grain. **3**
 iii. Explain about the quality control of seed production. **4**
 OR iv. Explain general principle and method of seed production. **4**
- Q. i. Write short notes on GOT test. **2**
 4
- ii. Write the detection process of genetically modified crops. **6**
 OR iii. Write about the various step of tetrazolium test. **6**
- Q. i. Define seed drying. **2**
 5
- ii. Write short notes on seed treatment. **2**
 iii. Describe general principles of seed storage. **4**
 OR iv. Explain measures for pest and disease control during seed storage. **4**
- Q. Attempt any two: **6**
- i. Describe seed marketing structure and organization. **4**
 ii. Write the factors affecting seed marketing, **4**

iii. Write the role of WTO and OECD in seed marketing

4

Marking Scheme

AG3CO30 Principles of Seed Technology

Q.1	i.	Ripened ovule of gymnosperms and angiosperms is called- (c) Seed	1
	ii.	Golden yellow colour tag is given to- (a) Breeder seed	1
	iii.	Objectives of seed certification includes- (a) High quality	1
	iv.	Seed vigor is affected by- (d) All of these	1
	v.	Seed which are initial seed of an improved variety with limited quantity is known as- (b) Nucleus seed	1
	vi.	Breeder seed is _____ % pure. (b) 100	1
	vii.	GMO means- (c) Genetically modified organisms	1
	viii.	The ability of seed to delay its germination until the favourable condition is- (b) Seed dormancy	1
	ix.	Genetic engineering can be best described as- (a) Application of molecular genetics in agriculture	1
	x.	Which of the following is important to understand the market demand of a specific product for a small seed company? (c) Market research	1
Q.2	i.	Definition	(As per explanation) 1
	ii.	Genetic purity of seed.	(As per explanation) 2
	iii.	Characters (5 Points)	(1 mark*5) 5
OR	iv.	5 Classes of seeds.	(1 mark*5) 5
Q.3	i.	Definition	(As per explanation) 1
	ii.	Difference between seed and grain.	(1 Mark*3) 3
	iii.	Quality control of seed production.	(As per explanation) 4
OR	iv.	Principle Method of seed production.	2 Marks 4 2 Marks
Q.4	i.	Short notes on GOT test.	(As per explanation) 2
	ii.	Detection process of genetically modified crops.	(As per explanation) 6

OR	iii.	Tetrazolium test.	(As per explanation) 6
Q.5	i.	Define seed drying.	(As per explanation) 2
	ii.	Write short notes on seed treatment.	(As per explanation) 2
	iii.	Principles of seed storage	(As per explanation) 4
OR	iv.	Measures for pest and disease	(1 Mark*4) 4
Q.6		Attempt any two:	
	i.	Structure and organization.	(1 Mark*4) 4
	ii.	Factors affecting seed marketing	(1 Mark*4) 4
	iii.	Role of WTO	2 Marks 4
		Role of OECD	2 Marks
