Seat No:__

PARUL UNIVERSITY COLLEGE OF AGRICULTURE B.Sc.(Hons.) Agriculture, Summer 2017-18 Examination

Enrollment No:_

Semest Subjec Subjec	ter: 2 t Code: 20102151 t Name: Principles of Seed Technology	Date: 22/05/2018 Time: 10:30 am to 1:00 pm Total Marks: 60	
Instrue 1. All c 2. Figu 3. Mak 4. Start	ctions puestions are compulsory. res to the right indicate full marks. e suitable assumptions wherever necessary. new question on new page.		
Q.1	Do as Directed. Fill in the blanks (Fach of 1 marks)		(10)
11.	1 is ripened ovule containing e	mbryo with reserve food in endosperm or	(10)
	cotyledons.		
	2. Rouging out off-types, diseased plants, objection	able weeds and other crop plants at appropriate	
	stages of crop growth, which ensures seed	and	
	3involves such activities as v	ariety development, evaluation and release, seed	
	production, processing, storage and certification		
	4 is the part of commercial p	roduce, saved for sowing or setting purposes.	
	5. In gram type of germination i	s occurring	
	7 Removal of off – types diseased plants weeds r	occurring.	
	from the seed crop variety is called	ogues of plants untering in their characteristics	
	8 In cotton and iso		
	of foundation seed and certified seed respectivel	V.	
	9. type of germination, the c	otvledons are comes above the ground and	
	provide nutrition to growing parts.		
	10 Chemical help in knowin	ng seed viability within few hours.	
В.	Multiple choice type questions. (Each of 1 mark)		(10)
	1. Seed Technology includes		
	A) Development of superior crop plant	C) seed certification, Seed quality control, seed	
	varieties	marketing	
	 B) Seed production, processing, Seed storage, seed testing, 	D) All of the Above	
	2. The seed is scientifically		
	(A) Processed	(C) Packed and labeled	
	(B) Treated	(D) All of the Above	
	3. Mustard seed is an example of		
	(A) Ex albuminous dicot seed	(C) Albuminous dicot seed	
	(B) Albuminous monocot seed	(D) Ex albuminous monocot seed	
	4. Hard seeds are common in		
	A) Fabaceae	C) Cannaceae	
	B) Malvaceae	D) Leguminaceae	
	5. The seed sector in India is governed by		
	A) Seeds act 1966	C) Protection of Plant Varieties	
	B) Seed control order 1983	D) All of the above	
	6. Crop seed multiplication ratio in paddy is	C 1, 10	
	A) 1: 100 B) 1: 20	C) 1: 10 D) 1: 50	
	B) 1: 20	D) 1: 50	
	(A) Physical purity	C) Moisture	
	A) Flysical pullty B) Genetic pulity	C) MOISIUIE	
	D) Genetic purity	D) i hysiological pulity	
		Page	1 of 2

	8. One is not a cause of seed dormancy from following			
	A) Hard seed coat	C) Chemical inhibitors		
	B) After ripening period	D) Immature embryo		
	9. Rouging may be done at			
	A) Pre – flowering stage	C) Maturity stage/ before harvesting		
	B) Flowering stage	D) All of the above		
	10. Genetic purity of seeds is tested on the basis of			
	A) Physical	C) Cytological		
	B) Chemical	D) Biochemical		
Q.2	Do as Directed.			
А.	Define the following. (Any five)		(05)	
	1. Seed germination			
	2. Apomictic seed			
	3. Seed certification			
	4. Rouging			
	5. DUS test			
	6. Seed health			
	7. Seed processing			
B).	Answer the following. (Any five)		(05)	
	1. State the methods of cleaning seed			
	 Write down the basic concepts of seed certification. Give the relationship of seed technology to other sciences. State the Methods of seed drying. 			
	5. Write the various classes of seeds.			
	6. Enlist the factors affecting the final marketing price.			
	7. Enlist the characteristics of good seeds.			
Q.3	Write short notes. (Any five)		(15)	
	1. Hybrid seed production in cotton			
	2. Seed processing			
	3. Seed drying			
	4. History of seed industry in India			
	5. Seed marketing and factor affecting seed market	ing		
	6. Procedure for certification of seed			
Q.4	Long Questions. (Any three)		(15)	
	1. Explain scarification in detail.			
	2. Physical purity.			
	3. Procedure for seed drying.			

4. Procedure for certification of seed.