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Max Marks: 100

B.E. / B.Tech. (Full Time) END SEMESTER EXAMINATIONS, NOV / DEC 2011

AGRICULTURAL AND IRRIGATION ENGINEERING BRANCH

SIXTH SEMESTER - (REGULATIONS 2008)

AI 9028 SEED TECHNOLOGY APPLICATIONS

Answer ALL Questions

$Part - A (10 \times 2 = 20 Marks)$

1) Differentiate seed and grain.

Time: 3 hrs

- 2) How is the planting value determined?
- 3) What are the mechanisms that encourage cross pollination in bisexual flowers?
- 4) Differentiate seed vigour and viability.
- 5) List the factors to be considered in planning a layout for seed processing plant.
- 6) What is stratification?
- 7) What are breeder seeds?
- 8) Define seed marketing. How can it be successful?
- 9) What do you understand by quarantine of seeds?
- 10) What are the packaging materials used for short term and long term storage of seeds?

Part – B (5 x 16 = 80 Marks)

i) Discuss the seed quality characteristics. (6)
ii) How do you relate seed technology to other sciences? (6)
iii) List the significant achievements of National Seeds Corporation. (4)
a) i) Describe the process of hybrid seed production in tomato. (6)
ii) Discuss the importance of harvesting of seed crops, dying and storage of seeds. (10)

b) i) Describe the various types of male sterility used to make hybrid seed production	easier		
and economical. Also describe the process of hybrid seed production in tomato.	(6)		
ii) Compare the floral biology of papaya and cucurbits. Discuss the practices recom	ımended		
for producing papaya seeds.	(6)		
iii) How are the seeds of brinjal and okra extracted?	(4)		
3) a) i) Explain in detail the process of seed certification done under the provision of Seed Act 1966			
and Seed Rules 1968.			
ii) Discuss the factors affecting seed longevity in storage.	(6)		
(or)			
b) i) What are the advantages of drying seeds? Explain the Forced Air Drying method in	n detail.		
	(10)		
ii) Write a brief note on a) Germination test b) Seed Viability Nomograph c) Universal Moisturemeter	(6)		
) a) i) Draw the skeleton of staffing pattern of a seed certification agency and explain their	r role. (8)		
ii) Discuss all the aspects connected to field inspection in seed certification process.	(8)		
(or)			
b) i) State all the steps to be followed in the planning and development of a new seed programme.	(8)		
ii) What are the seed legislations brought out in 1983 and 1988? Briefly discuss their			
objectives.	(8)		
5) a) i) What is seed tag? Discuss the details to be reviewed in it.			
ii) Discuss the marketing mix in detail.	(8)		
(or)			
b) i) Contrast public and private seed organisations on all aspects.	(8)		
ii) Explain how the profit – loss account is prepared for a seed product.	(4)		
iii) Discuss the techniques used for seed pricing.	(4)		