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Is there a need to store the seeds?

KERALA AGRICULTURAL UNIVERSITY B.Sc. (Hons.) Forestry 2016 Admission

III Semester Final Examination-February-2018

Forest Seed Technology (2+1)

Marks: 50 Time: 2 hours (10x1=10)

	Fill in the blanks $(10x1=10)$
1	provides hardness and rigidity to seed coat.
2	Cotyledons are
3	Germination, genetic purity, physical purity, and seed health are the essential qualities of seed.
4	Heterostyly favours
5	After physiological maturity seed quality will be
	Choose the Correct Answer
6	Synergids and antipodals in the embryo sac directly proliferate into an embryo:
	a Adventive embroyny b Displosory c Apogamy
	d a and c but not b e All the above
7	Mega gametophyte is the
	a Ovule b Embryosac c Ovary
	d All the above e Pistil
8	Pollination by snails and slugs:
	a Malacophily b Phaleanophily c Mermicophily d Anthropophily
9	The triploid endosperm nucleus is called the
	a Polar nuclei b Primary endosperm nucleus
	c Secondary nucleus d Egg nucleus e Sperm
0	Flowers with the androcieum or gynoecium whorl missing is termed
	a Perfect b Imperfect c Incomplete flowers d Complete flower.
	Write Short notes on ANY FIVE of the following (5x2=10)
1	Parthenogenesis vs Psuedogamy. How does it affect seed production in a cross-pollinated crop?
2	What is equilibrium moisture content of the seed
3	Recalcitrant seeds vs Orthodox seeds with example
1	What are the basic principles of seed cleaning?
5	Incubation- drying separation (IDs) method of seed treatment
í	What is seed processing? How is dockage removed from a seed lot?

Answer ANY FIVE of the following

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(5x4=20)

- 1 Seed appendages and their purpose
- What is seed packing? What are the factors deciding the quantity of seed to be packed in each seed pack and the types of seed packing materials available?
- 3 Effect of temperature, humidity and seed moisture on seed storability
- 4 Methods of drying orthodox seeds
- 5 Elaborate one of the indirect tests for seed viability adopted in forest species
- 6 Enumerate the various approaches to conserve recalcitrant seeds species
- 7 Elaborate the type of germination observed in forest species. Substantiate with appropriate diagrammes and examples.

IV Write an essay on ANY ONE of the following

(1x10=10)

- What is seed dormancy? How different is it from the phenomenon of quiescence? Classif dormancy and elaborate the methods to overcome seed dormancy.
- What are the techniques that can be resorted to for seed quality enhancement? Give special emphasis on seed priming and seed coating treatments.
