

SEPTEMBER 1989

TIME ALLOWED: 3 HOURS

Answer ALL Questions

1. What are the elements of a National Seed Programme ?  
Briefly discuss each aspect.
2. A sound seed improvement programme is usually necessary before the successful take-off of a seed programme. Discuss.
3. Write an essay on Seed Legislation and Law Enforcement.
4. Complete the following table:

<u>Moisture Content</u>	<u>Effect on Seed</u>
45-60%	
18-20%	
12-20%	
4-8%	
0-4%	

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- 5(a) What is Equilibrium Moisture Content (EMC)
- (b) Equilibrium Moisture Content (EMC) rises \_\_\_\_\_ %  
to \_\_\_\_\_ % with each \_\_\_\_\_ % rise in  
temperature.
- 6(a) What are the five major components of a seed  
drier? Briefly discuss each component.
- (b) When seed moisture range is about 13% the optimum  
drying temperature should be \_\_\_\_\_ °C.
- 7(a) How would you effectively manage a seed drying  
operation?
- (b) Name the different kinds of driers in use for seed.
8. Sketch the basic flow diagram in seed processing  
using a named seed kind.

9. What are the physical properties of seed and their contaminants? Name one machine each that utilize these properties to clean seed.
10. Why are seeds treated? Name the various types of seed treatment and their formulations.
- 11(a) The seed production technique for maize and sorghum hybrids are the same. True or False.
- (b) If the answer in 11(a) above is false, briefly discuss these differences in seed production techniques.
12. Differentiate between:
  - (a) A Recommended and a Released Variety.
  - (b) Seed Promotion and Seed Extension
  - (c) Seed Marketing and Seed Distribution
13. Discuss the role of Government in Seed Marketing.
14. Write short notes on each of the following:-
  - (i) Air-screen cleaner
  - (ii) Seed contaminants
  - (iii) Eccentrics
  - (iv) Gravity Separator
  - (v) Seed Quality Attributes
  - (vi) Seed Packaging
  - (vii) Indented - Disc Separator
  - (viii) Determinants of Seed Quality
  - (ix) Foundation Seed Programmes
  - (x) Production techniques (Package recommendation) for cowpea in South-western Zone of Nigeria.