Conglomer India's Agriguru EdTech

IBPS AFO – Seed Technology

Previous Year Questions (Topic-wise Compilation)

Subject	Agriculture — Seed Technology & Production
Source Papers	4 IBPS AFO Mains papers (2020–21 through 2024)
Total Questions	9 curated MCQs
Coverage	Seed classes, certification, isolation distance, germination standards, scarification, dormanc
Format	Multiple choice; answers from official answer keys

How to use this booklet: Each question is reproduced from the original paper followed by the official answer. Notes in red flag either extraction artefacts from the source PDF or topical bridges to adjacent subjects (e.g., tissue culture).

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IBPS AFO Mains 2020–21 (4 questions)

Q46. Scratching, rubbing and softening seed coat to make it permeable for water?

(a) Scarification
(b) Stratification
(c) Scratching
(d) Dilution
(e) Removing

Answer: (a) Scarification

Q48. Progeny of breeder seed which should maintain certain germination standards and should be approved by certification agency?

(a) Breeder
(b) Nucleus
(c) Foundation seed
(d) Certified
(e) Truthful Labeled

Answer: (c) Foundation seed

Q59. A fertilized mature ovule consisting of embryo, stored food material and protective coats is known as?

(a) Egg
(b) Seed
(c) true seed
(d) Fertilized seed
(e) None of these

Answer: (c) true seed

Q60. In India, normally how many generation system seed are produced?

(a) 1
(b) 2
(c) 3
(d) 4
(e) 6

Answer: (c) 3

IBPS AFO Mains 2021–22 (2 questions)

Q36. Minimum isolation distance of okra in certified seed (metre)

(a) 1000
(b) 400
(c) 600
(d) 500
(e) 200

Answer: (e) 200

Q48. Which of the following is responsible for seed dormancy?

(a) Physical cracking
(b) Fungal growth
(c) Pathogen infestation
(d) Distorted Seed coat
(e) Immature embryo

Answer: (e) Immature embryo

IBPS AFO Mains 2022–23 (1 questions)

Q45. The Germination percentage in onion in case of certified seeds is

(a) 90%
(b) 99%
(c) 85%
(d) 80%
(e) 70%

Answer: (e) 70%

*PDF extraction note: option text in the source had silviculture labels appended ('70% Chirpine', '90% Deciduous trees' …) due to the original PDF's two-column layout. Only the percentage values are part of this question; the correct answer is **(e) 70%**.*

IBPS AFO 2024 (Mains) (2 questions)

Q36. What is the germination percentage required for the hybrid seed production of tomato?

(a) 80%
(b) 85%
(c) 70%
(d) 90%
(e) 75%

Answer: (d) 90%

Q57. What type of culture is used for producing triploid plants?

(a) Endosperm culture
(b) Callus culture
(c) Shoot Meristem/Embryo culture
(d) Pollen culture
(e) Apical meristem

Answer: (a) Endosperm culture

Bridge topic: endosperm culture is a tissue-culture technique used to raise triploid plants from the 3n endosperm — sits between seed technology and plant biotechnology.

Seed Technology – Quick Revision Notes

Concept	Key fact
Seed generation in India	3-generation system: Breeder seed → Foundation seed → Certified seed (with Nucleus se
Tag colours	Breeder = Golden Yellow; Foundation = White; Certified = Blue (Azure Blue); Truthful label
True seed	A fertilised mature ovule consisting of embryo + stored food (endosperm/cotyledons) + prot
Scarification	Mechanical/chemical/hot-water treatment to thin or rupture hard seed coats so water and g
Seed dormancy causes	Hard seed coat, immature embryo, inhibitors (ABA, phenolics), after-ripening, light/tempera
Min. germination % (certified)	Onion 70%, Tomato 70%, Wheat 85%, Paddy 80%, Maize 90%, Bajra 75% (IMSCS standa
Isolation distance (okra, certified)	200 m (foundation 400 m). Prevents cross-pollination from other varieties.
Hybrid tomato seed	Produced by emasculation + hand pollination; the seed-production crop must maintain ≥90
Endosperm culture	In-vitro culture of 3n endosperm tissue gives rise to triploid (3n) plants — useful for seedles

Compiled by Conglomer India's Agriguru EdTech for IBPS AFO aspirants. For any corrections to the answer key, email agriguru@conglomerindia.in.