2023

AGS 4th Semester Examination

B.Sc. Hons. in Agriculture

Principles of Seed Technology

PAPER - 406

Full Marks: 50

Time: 2 hours



The figures in the right-hand margin indicate marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Answer all questions.

1. Answer any five questions from the following: $2\times5=10$

Of Define seeds and mention their role in agriculture.

Write down the 'Harrington thumb rule'.

/578

(Turn Over)



(c) Define transgenic crops citing an example

Define orthodox and recalcitrant classes of seeds.

(e) What is Seed Act and its enforcement?

in respect of their longevity status Define microbiotic and macrobiotic seeds

- (9) Mention the role of high temperature and high relative humidity for seed storage.
- 3 disease infected rice field? What will be the treatments for Khaira
- Answer any four questions from the following : 5×4=20

What are 'Foundation' and certification. seeds? Write the procedure for seed 'Certified 2+3=5

of crop seeds? Briefly state drying and What is meant by postharvest management processing of seed before storage.

2+3=5

(Continued)

0 Briefly discuss the role of WTO and OECD in seed marketing.

Write a note on the duty and power of seed inspector including offenses and penalties.

production of wheat: Explain the following points of seed 1×5=5

(i) Isolation requirement

Time of sowing

ESTD 2017

ORE CITY

(iii) Seed rate

(iv) Irrigation

Seed yield

What is seed testing

9

assessment? Mention TTC test. for quality 4+1=5



ω Answer any two questions from the following: 10×2=20

seeds? Write a detailed note on the various What is meant by deterioration of crop causes and control measures of seed deterioration under storage. 2+8=10

/578

(b) How does genetic purity of crop seeds differ from physical purity? What are GM and non-GM crops? Write the methods for detection of genetically modified crops. 3+2+5=10



(c) Briefly write the general principles of seed storage. Discuss the stages and factors affecting the longevity of seeds during storage. 4+6=10



Define 'grow out' test of seeds. Write a comprehensive note on varietal identification of crop seeds employing molecular and biochemical tests. Mention seed production in sugarcane. 1+5+4=10



AGS/4th Sem/406/23

BL23(023)-90