

Roll No _____

END-TERM EXAMINATION
December-2024

Course Code: SAAG305A **Course Name:** Crop Improvement-I (Rabi Crops)

Programme Name: B.Sc.(Hons.) Agriculture



Time: 2.5 Hours

Maximum Marks: 30

Instructions: All questions are compulsory. The question paper consists of 10 questions divided into three-part A, B and C. Section-A comprises 5 questions of 1 mark each, Section-B comprise 4 questions of 4 marks each and Section-C comprises 1 questions of 9 marks. Q. No. 7, and Q. No. 10 have internal choice.

Section-A (5 x 1=5 Marks)

1	Write full form of the following - (i) IPGRI (ii) CPRI	CO1 (L1)
2	True/ False (i) The Green Revolution in India primarily focused on the improvement of which <i>Rabi</i> crop. (ii) Genetically modified seeds can be produced through conventional breeding methods	CO5 (L1)
3	Who proposed ideotype of following crops: (i) Wheat (ii) Rice	CO1 (L1)
4	Define following terms: (i) Pure Line (ii) Land races	CO2 (L1)
5	Differentiate quantitative and qualitative characters.	CO2 (L1)

Section B (4 X 4 = 16 Marks)

6	Discuss hybrid seed production methods and procedures in sorghum in detail.	CO2 (L2)
7	Discuss center of origin in detail with suitable examples. OR Define heterosis? Discuss various types of heterosis and their estimation methods with the help of suitable example.	CO3 (L2)
8	Define plant genetic resources. Explain various activities of germplasm conservation.	CO2 (L1)
9	Discuss bulk methods application and procedures in detail with the help of suitable flow chart.	CO3 (L2)

Section C (1 X 9 = 9 Marks)

10	Discuss the Centre of origin, Floral biology, emasculation and pollination technique in Rice. Also discuss the major constraints in pulses breeding. Suggest some suitable strategy to overcome the issue.	CO2 (L3)
	OR Define ideotype and explain the characteristics of ideotype with the example of any three Kharif crop.	CO3 (L2)

UNDERTAKING

From:

Dr. Khushboo Singh

Assistant Professor

School of Agricultural Sciences

To,

Controller of Examinations,

K.R. Mangalam University, Gurugram (HR)

Question Paper Setting for End Term Examination –

Dear Sir,

1. I am to confirm you that none of my near relations (husband, wife, son, daughter, brother, sister, nephew, niece, brother-in-law, sister-in-law, son-in-law, daughter-in-law, grand children) is a student appearing in the above said examinations.
2. I do hereby declare that the Question paper set by me, if accepted; shall be the exclusive property of **K.R. Mangalam University, Gurugram**.
3. I also hereby declare that the question paper has been set, written/typed by me, and all rough drafts and other material used have been destroyed and **no copy, in any form on computer, etc. of the Question paper has been retained by me.**

Yours faithfully,

Signature of Paper Setter

Course Name- Fundamentals of Plant Breeding

Course Code-SAAG208A

Full Name: Dr. Khushboo Singh

Residential Address: H.No. 1052/9 Faridabad

Dated: 8.12.2022 **E-mail:** Khushboo.singh@krmangalam.edu.in , **Mob. No.-**8287632175