

Roll No _____

**Re-appear, EXAMINATION
Dec, 2024**



K.R. MANGALAM UNIVERSITY
THE COMPLETE WORLD OF EDUCATION

Course Code: SAAG223A **Course Name:** Commercial Plant Breeding
Programme Name: B.Sc.(Hons.) Agriculture

Time: 2.5 Hours

Maximum Marks: 50

Instructions: All questions are compulsory. The question paper consists of 11 questions divided into three part A, B and C. Section-A comprises 5 questions of 2 marks each, Section-B comprise 4 questions of 5 marks each and Section-C comprises 2 questions of 10 marks each. Q. No. 7, Q. No. 10 and Q. No. 11 have internal choices.

Section-A (5 x 2=10 Marks)

1	Fill in the blanks: (i) Name any one variety of Hybrid Maize _____. (ii) A lines are called -----	CO4
2	True/ False (i) CGMS method is used in hybrid seed production of pearl millet. (T/F) (ii) Notification of any variety is a not a statutory function. (T/F)	CO3
3	Write down Isolation distance for hybrid seed production of following Crops: (i) Maize (ii) pigeonpea	CO1
4	Define the following term: (i) Top cross (ii) Time Isolation	CO4
5	Write Full form of the following: 1 SVRC 2 ICRISAT	CO3

Section B (4 X 5 = 20 Marks)

6	What do you understand by three line and two line system?	CO1
7	Write a short note on tissue culture techniques OR Write a short note on modes of plant reproduction.	CO2 CO1
8	What are the various IPR issues in commercial plant breeding?	CO4
9	Differentiate Variety release and notification systems in India.	CO3

Section C (1 X 10 = 10 Marks)

10	Write down the steps and factors affecting on hybrid seed production of Pearl millet. OR Write down the principles of quality seed production of vegetables crop under open and protected environment.	CO4
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