Paper Code - 3046

B Sc Sem – I (Old Course)
July-Sep – 2021
BOTANY
ES BOT 112 - Plant Breeding

કુલ સમય :– ૩૦ મીનીટ કુલ પ્રશ્નો : ૩૫ વિદ્યાર્થીએ ટીક કરવાના પ્રશ્નો : ૨૫
નોંધ : વિદ્યાર્થીએ માત્ર ૨૫ પ્રશ્નો જ ટીક કરવાના રહેશે. જો વધારે ટીક કરેલ હશે તો પ્રથમ ૨૫ પ્રશ્નો જ ગણતરીમાં લેવામાં આવશે.

1. **Pure line method was given by _____.**

a) Martin B.Johnnsen C. Bateson D.Mendel

2. **It is also known as heterosis _____.**

a) Hybrid vigour B.Hybridization C.Breeding D.Fertilization

3. Which method is not included in the hybridization of self pollinated plant?

a) Pedigree method B.Bulk method C.Back cross method D.Recurrent selection

4. Which variety of rice is used for obtaining 'dwarf rice'?

a) Gaana .b) Jirasar c) Swama d) Basmati

5. A plant which is produced asexually from the plant of same species is called_____.

a) Clones B.Vector C.Hybrid D.Callus

6. Who is the pioneer plant breeder?

a) Norman Borlaung B.Burbank & Michurin C.Bateson D.Louis de Vilmorin

7. Who discovered progeny test?

a) Louis de Vilmorin B.Mendel C.Norman Borlaung D.Johannsen

8. The parental lines of a synthetic variety are called

a) Syn_1 B.Syn_2 C.Syn_3 D.Syn_0

9. NE Borlang got Noble prize for peace in 1963 for developing

a) Dwarf maize B.Dwarf Rice C.Dwarf wheat D.Dwarf Barley

10. Who is known as father of Green Revolution in India?

a) Mendel B.Norman Borlaung C.Louis de Vilmorin D.M.S Swaminathan

11. Norin gene is for……..

a) Dwarfism B.Pest resistance C.High protein D.None of the above

12. In which of the following crops cross pollination occurs:

a) Wheat B.Rice C.Maize D.Barley

13. In which of the following crops self pollination occurs:

a) Maize B.Bajara C.Wheat D.All of the above

14. Which of the following is an example of dioecious plant:

a) Papaya B.Coccinia C.Both D.None

15. Cleistogamous flowers are found in:

a) Groundnut B.Wheat C.Barley D.All of the above

16. How many centre of origin for crops proposed by N.I. Vavilov :-

a) 6 B.8 C.7 D.4

17. Hybrid vigour cannot be easily lost in……..plants

a) Self pollinated B.Cross pollinated C.Vegetatively propagated D.None

18. Which of the following step is not part of hybridization:

a) Bagging B.Tagging C.Emasculation D.Transpiration

19. Emasculation can be done through:

a) Hand B.Cold water C.Alcohol D.All of the above

20. Which of the following factors causing variations in pure lines:

a) Mutations B.Natural Crossing

C.Chromosomal aberrations D.All of the above

21. Johannsen worked on _____ plant for pure line

a) Wheat B.Barley C.Beams D.Bajara

22. Ear to row method of progeny selection in Maize was given by:

a) Buchanan B.Hopkins C.Teiz D.Salisburry

23. National Bureau of Plant Genetic Resources(NBPGR) is situated at

a) Dehradun B.Howrah C.Delhi D.Lucknow

24. Mass selection can be affected by:

a) Heritability B.Selection intensity C.Linkage relations D.All of the above

25. In interspecific hybridization the parents used are:

a) Pure line B.Single cross hybrids C.Heterozygous D.None

26. The parental lines of a synthetic variety are called.....

a) Syn_1 b) Syn_2 c) Syn_3 d) Syn_0

27. It is also known as a heterosis.....

a) Hybrid vigour b) Breeding c) Hybridization d) Fertilization

28. The new varieties of plants are produced by.....

a) Mutation & Selection b) Selection & Introduction

c) Selection & Hybridization d) Introduction & Mutation

29. Pure line breed refers to.....

a) Homozygosity only b) Heterozygosity only

c) Homozygosity & self assortment d) Hererozygosity & linkage

30. Which of the following information note down on tagging ?

a) Date of pollination b) Name of male & female flower

c) Date of emasculation d) All of the these

31. Which of the following method take a long time for produced new varities ?

a) Bulk method b) Pure-line c) Mass method d) Both b & c

32. ..... is not a breeding method.

a) Pedigree b) Bulk c) Mass d) Staining

33. Bagging is done to

a) Avoid cross pollination b) Avoid self-pollination

c) Achieve desired pollination d) Prevent contamination from foreign pollen

34. Dwarfing gene of wheat is.....

a) pal 1 b) Norin 10 c) Atomita 1 d) pelita 2

35. Which of the following is the maize synthetic varities?

a) Pusa b) Amber c) Nandi d) Swama