FE- 2nd BSc -1st Sem 2024-25 File-104

ಅಂತಿಮ ಪರೀಕ್ಷೆ Final Examination QP set code-A

N	A	M	E		O	F		T	H	E		S	T	U	D	E	N	T	
U	H	S	2	3	U	G					College code							0	

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Time: 10:30 -11:00 (30 min.) **Total Marks: 20**

Part – A Question paper (2 pages) **GPB-201(2+1)**

- ✓ ***Write the Correct Part-A Question paper Set Code* in OMR sheet.**
- ✓ Please return **Part-A QP after 30 min** of start of examination to the invigilator and Collect while leaving the exam hall.

Q.I. Select the most correct answer A/B/C/D for the following questions.

20 x 0.5 mark = 10 Marks

1. Indian scientist is associated with wheat breeding in Green Revolution is as
   a.Dr. M.S. Swaminathan b. Dr. N.I. Vavilov c. Dr. H.G. Khurana d. None of these
2. The mechanism promotes cross-pollination is
   a.Cleistogamy b. Dichogamy c. Autogamy d. None of these
3. Potato is a modified stem and is called as
   a.Sucker b. Tuber c. Bulb d. None of these
4. The absence of functional pollen of male sterility is characterized by
   a. GMS b. CMS c. NMS d. All of these
5. Germplasm storage is most effective for
   a. Recalcitrant seeds b . Orthodox seeds c. Non-viable seeds d. Seeds with high H_2O
6. The agency is responsible for plant introduction in India
   a.NBPGR b. ICAR c. DAC d. All of these
7. The method is commonly used to test the genetic purity of self-pollinated crops is
   a.Progeny testing b. Chromosome doubling c. Hybridization d. None of these
8. In 1961, hybrid variety was first commercially exploited in
   a.Sorghum b. Sugarcane c. Maize d. None of these
9. Inbreeding depression is most commonly observed in
   a. Hybrid b.Inbred c. Outbred d. All of these
10. Ear to Row method of progeny selection was developed by
    a.Lonnquist b. Shull c. Hopkins d. None of these
11. Differential reproduction rates of different genotypes is known as
    a.Migration b. Selection c. Random mating d. None of these
12. The largest number of mutant varieties have been developed in
    a.Cereals b. Pulses c. Cash crops d. None of these
13. Bread wheat's genomic constitutions has
    a.AABBRR b. AABBDD c. BBDDRR d. None of these
14. Disease escape may be the result of
    a. Early varieties b. Changed date & planting site
    c. Disease & pest control d. All of these
15. The concept of gene- for –gene relationship between host and pathogen was proposed by
    a.Van der Plank b. Flor c. Browning d. Marshall

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ಅಂತಿಮ ಪರೀಕ್ಷೆಗಳು (ಶೈಕ್ಷಣಿಕ ವರ್ಷ-೨೦೨೪ -೨೫) Final examinations- AY: 2024-25

16. The parent donated desirable genes is called as
    a. Recipient parent b. Multiple parent c. Doner parent d. None of these
17. The random change in gene frequency due to sampling error is
    a. Random drift b. Selection c. Mutation d. None of these
18. Marker assisted breeding is applicable for
    a.Plants b. Animals c. Microbes d. Both a and b
19. Restriction Fragment Lenth Polymorphism (RFLP) was invented by
    a. McClelland and Welsh b. Alec Jeffreys c. Zabeau and Vos d. None of these
20. RAPD is marker
    a. Co-dominant b. Dominant c.Hybridised d. None of these

Q.II. Mention TRUE (T) /FLASE (F) for the following statements in OMR sheet

10x 0.5 mark = 5 Marks

21. Plant breeding started in India only after independence. 1. FALSE
22. Vegetative propagation results in genetically identical offspring. 2. TRUE
23. Mode of reproduction determines the genetic constitution of plants. 3. TRUE
24. A-line is a male fertile line. **4. FALSE**
25. Germplasm evaluation is the process of identifying desirable traits in germplasm **5. TRUE**
26. The primary objective of plant introduction is to develop new crop varieties. **6. FALSE**
27. **The variety developed by Pedigree method is heterozygous and heterogeneous.** **7. FALSE**
28. The pure lines may be isogenic lines, closely related lines or unrelated lines. **8. TRUE**
29. A population undergoing evolution would show Hardy-Weinberg disequilibrium. **9. TRUE**
30. Allopolyploid contains two or more distinct genome. **10. TRUE**

Q.III. Match column A with column B for correct answer. **10 x 0.5 mark = 05 Marks**

Q.No	Column A		ANSWERS	Column B
31	Green Revolution	A	**E**	Introduction of plants without any modification
32	Cleistogamy	B	**J**	Overcoming self-incompatibility
33	Bud pollination	C	**B**	Maize
34	Gene banks	D	**F**	Sweet William x carnation
35	Plant Introduction	E	**A**	Dr. M.S. Swaminathan
36	Progeny test	F	**G**	Facilities for storing seeds, tissues, or genetic material
37	Ganga 101	G	**C**	Used for testing genetic purity
38	Heterobeltiosis	H	**H**	Over better parent
39	Thomas Fairchild	I	**D**	Point mutation
40	SNP	J	**I**	Self-pollination

END OF PART – A QUESTION PAPER 16th January 2025

Student's Signature…….. Invigilator's signature……..