

S.NO.:185

BATCH: 87-2012, 2014-2016 Reg. No.:

END OF SEMESTER EXAMINATIONS, NOVEMBER - 2018  
GENETICS AND PLANT BREEDING  
SUBJECT CODE : 14UABO06

104

MAJOR : B.Sc (Botany)  
TIME : 3 HOURS

SEMESTER : V  
MAX. MARKS: 75

Answer ALL Questions

SECTION - A ( 10 X 1 = 10 )

Define:

1. Gene
2. Inheritance
3. Plastid
4. Nucleotide
5. DNA
6. t-RNA
7. Variations
8. Mutation
9. Radiation
10. Breeding

SECTION - B ( 5 X 5 = 25 )

Answer any FIVE questions:

11. Write short notes on Mendelian inheritance.
12. Comment on duplicate gene interaction in genetics.
13. Enumerate Colour blindness.
14. Give an account on Genetic code.
15. Briefly explain the Lac operon model of gene expression in prokaryotes.
16. Give short notes on mutagens.
17. Comment on Heterosis.

SECTION - C ( 5 X 8 = 40 )

Answer any FIVE questions:

18. Write an essay on ABO Blood grouping.
19. Write short notes on Linkage and Crossing over.
20. Explain the semi-conservative model of DNA replication in prokaryotes.
21. Give an account on Watson and Crick model of DNA.
22. Briefly explain about structural aberrations.
23. Explain the Mutation breeding.
24. List out the achievements in sugarcane plant breeding in India.

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