

K20U 0088

Reg. No.:....

Name :

VI Semester B.Sc. Degree (CBCSS-Reg./Supple./Improv.)

CORE COUR	camination, April 2020 4 Admission Onwards) SE IN BOTANY/PLANT SCIENCE Genetics, Biostatistics and Evolu	
Time : 3 Hours	parwinism ?	Max. Marks: 40
(Answer all)	SECTION – A	
Correns observed maternal a) Pisum sativum c) Mirabilis jalapa	plastid inheritance in b) Lathyrus sativus d) Antirrhinum majus	
 Duplicate gene action ratio a) 9:3:3:1 b) 13:3 	b) 9:7 d) 15:1 missons to mamed as	
In bacteria and bacteriopha a) Linear c) Unbranched	ges, the gene map is b) Circular d) None of these	
Evolution that operates with a) Micro evolution c) Mega evolution	nin the level of species is b) Macro evolution d) Genetic drift	

SECTION - B

(Answer any eight)

- 5. Write on pleotropic genes citing an example.
- 6. Define Euphenics and Eugenics.
- 7. Write short notes on sex linked inheritance.

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- 8. Explain any two measures of dispersion.
- 9. What is meant by allopatric speciation? Explain.
- 10. Write notes on genetic drift.
- 11. Bring out the salient features of the ABO Blood group system.
- Explain the type of genic interaction reported in Shepherd's purse plant.
- 13. What is neo Darwinism?
- Explain incomplete dominance.
- 15. What do you mean by dominant back cross?
- 16. What is coefficient of coincidence ? (8×2=16)

SECTION - C

(Answer any four)

- 17. Explain the mechanism of crossing over.
- Compare progressive and retrogressive evolution.
- Explain the inheritance of comb pattern in fowls.
- Describe zig-zag inheritance in haemophilic persons.
- 21. Explain the postulates of Lamarck.
- 22. Illustrate complementary gene interaction in Lathyrus sativus.

SECTION - D

(Answer any one)

- Discuss polygenic inheritance citing examples.
- 24. Write in detail on the phenomenon of speciation.
- Explain the measures of central tendency.