b) Different structure with same function and only local party local structure with same function and only local party local structure with same function and only local party local structure with same function and only local party local structure with same function and only local structure with same function and same function and only local structure with same function an

SECTION - B

5. Explain Neo Lamarckism and its significance.

 $(4 \times 1 = 4)$

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c) Represents evolutionary rudiments mornious applied the country

6. Briefly explain directional selection with suitable examples.

a) Same structure with different function

d) None of these

Answer any eight:

7. What is co-dominance?

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- 8. Briefly explain Urey Miller experiment.
- 9. By citing examples, differentiate sex linked inheritance from sex limited traits.
- 10. How will you find central tendency in statistics?
- 11. What are lethal genes?
- 12. What is peripatric speciation? INVIATOR MERAUOD BROD
- 13. What is chiasma? What is the significance of chiasma?
- 14. How evolutionary trees are constructed?
- 15. Explain law of segregation.
- 16. What is regression?
- 17. What is natural selection? Mention some examples.
- 18. Define Hardey-Weinberg principle.
- 19. What are autopolyploids?
- 20. Define quantitative inheritance.

 $(8 \times 2 = 16)$

SECTION - C

Answer any four :

- 21. Define epistasis. Give an example for recessive epistasis.
- 22. Explain bio-chemical evolution.
- 23. Explain the mechanism behind shell coiling in snails.
- 24. Explain Chi square test. Write its significance.
- 25. What is dispersion? How will you find dispersion?
- 26. Explain evidences of Organic evolution.
- 27. How pedigree is helpful in solving the genetical problems in a family?
- 28. Explain micro and mega evolution. Briefly explain evolutionary forces which affect them? (4x3=12)

SECTION - D

Answer any one:

- 29. Explain Darwinism. Discuss the limitations of this theory.
- 30. Explain Chromosome mapping. How mapping is important in genetics?
- With special reference to ANOVA explain the applications of statistical tools in biology. (1×8=8)