

Total No. of Pages: 2

Register Number:

Name of the Candidate:

**5305**

**B.Sc. DEGREE EXAMINATION, 2013**

**(ZOOLOGY)**

**(THIRD YEAR)**

**(PART-III)**

**730. GENETICS**

December]

[Time : 3 Hours

**Maximum : 100 Marks**

**SECTION-A**

**Answer any TEN questions**

(10×2=20)

1. Test Cross.
2. Lethality.
3. Pleiotropism.
4. Polygenes.
5. Linkage groups.
6. Synapsis.
7. Gynandromorph.
8. Y-linked genes.
9. Sex influenced genes.
10. Maternal Inheritance.
11. Muton.
12. Mutagens.
13. Gene Frequency.
14. Eugenics.
15. Edward Syndrome.

**SECTION-B**

**Answer ALL questions**

(5×7=35)

16. a) Explain dominant epistasis with an example.  
(OR)  
b) Explain multiple alleles with reference to blood group of man.
17. a) Explain the mode of inheritance of skin colour in man.  
(OR)  
b) Describe the phenomenon of linkage by giving suitable example.

18. a) Explain about environmental sex determination.  
(OR)  
b) Explain the inheritance of sickle feathers in chicken.
19. a) Describe maternal inheritance with an example.  
(OR)  
b) Explain the fine structure of gene.
20. a) Write a short note on Hardy-Weinberg law.  
(OR)  
b) Give an account of Turner Syndrome.

**SECTION-C**

**Answer any THREE questions  
Each answer should not exceed 1500 words**

(3×15=45)

21. Explain Monohybrid cross and Dihybrid cross with suitable examples.
22. Describe the mechanism of crossing over.
23. Describe sex linked inheritance in man with suitable examples.
24. Give an account of chromosomal aberrations.
25. Write an essay on Eugenics.

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