



11530

B.Sc V Semester Degree Examination, Oct./Nov. - 2018

ZOOLOGY

Genetics

Paper - Z - 5.1

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates:

1. Answer should be specific to the questions.
2. Draw diagrams wherever necessary.

I. Answer any TEN of the following.

(10×2=20)

1. Population Genetics.
2. Heterozygous Genotype.
3. Euchromatin.
4. Terminating codons.
5. Pyrimidines.
6. Epistatic Gene.
7. Pseudoalleles.
8. Crossing over.
9. Substitution point mutation.
10. Y-Linkage.
11. Palindrome sequence.
12. Tag - DNA polymerase.

[P.T.O.]



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II. Answer any **FOUR** of the following.

(4×5=20)

13. Describe the structure of Lampbrush chromosome.
14. Illustrate inheritance of complementary factors.
15. Explain inheritance of ABO blood group in man.
16. Explain semi conservative method of DNA replication.
17. What are causes and Symptoms of Albinism.
18. Write a note on inheritance of hemophilia in man.

III. Answer any **FOUR** of the following.

(4×10=40)

19. Describe chemical composition and different types of RNA.
 20. Describe mechanism of crossing over and write its significance.
 21. Write a note on any four syndromes caused by chromosomal mutation.
 22. Describe chromosomal basis of sex determination.
 23. Explain role of Eugenics in improvement of human race.
 24. Explain production of insulin by genetic engineering.
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ZOOLOGY

Animal Behaviour Evolution and Paleontology

Paper - 5.2

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates:

1. Answer should be specific to questions.
2. Draw neat labelled diagram wherever necessary.

I. Answer any TEN of the following.

(10×2=20)

1. Viviparous
2. Nasute
3. Navigation
4. Catadromous migration
5. Reflexes
6. Forager
7. Camouflage
8. Imprinting
9. Intraspecific struggle
10. Nocturnal
11. Mutation
12. Complementary caste.

II. Answer any FOUR of the following.

(4×5=20)

13. Courtship in Scorpion and Peacock.
14. Mimicry in Animals with examples.
15. Nest constructed by Amphibians.
16. Allopatric speciation.
17. Different types of Taxes with examples.
18. Pre human phase.

[P.T.O.]



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III. Answer any **FOUR** of the following.

(4×10=40)

19. Parental care in Fishes.
 20. Social organisation in honeybees.
 21. What is chronobiology? Explain various types of rhythms.
 22. Nesting behaviour in birds.
 23. Process of fossilization and types of fossils.
 24. Describe Kohlar and Koffka experiment on Chimpanzee.
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