

(201ZOO17)

M.Sc. DEGREE EXAMINATION, APRIL 2018

SECOND SEMESTER

Branch - Zoology

GENETICS AND EVOLUTION

(New Syllabus for batch 2017)

Time : 3 Hours

Max. Marks : 70

PART - A

Answer any FIVE of the following.

(Marks : 5 × 4 marks = 20 marks)

1. Lethal genes.
2. Rh factor.
3. Trisomy.
4. Translocation.
5. Phylogeny.
6. Neodarwinism.
7. Use and disease theory.
8. Mega Evolution.

PART - B

Answer FOUR of the following.

(Marks : 4 × 12.5 marks = 50 marks)

1. (a) Write a detailed account on the genome organisation in Eukaryotes.

Or

- (b) What is Crossing over? Explain the theories and mechanism of crossing over.

10. (a) Define mutation. Describe the types of mutations and the molecular basis of mutations.

Or

- (b) What is meant by Eugenics? Discuss the positive and negative Eugenics.

[P.T.O]

11. (a) What is speciation? Describe the different models of speciation.

Or

(b) Define isolation. Discuss the types of isolation and the role of isolating mechanisms in evolution.

12. (a) Write notes on :

(i) Natural selection

(ii) Microevolution.

Or

(b) Write an essay on the evolution of man.
