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X—67—2019

FACULTY OF SCIENCE AND TECHNOLOGY

B.Sc. (Second Year) (Third Semester) (Regular) EXAMINATION

OCTOBER/NOVEMBER, 2019

ZOOLOGY

Paper VI

(Genetics)

(Friday, 29-11-2019)

Time : 2.00 p.m. to 4.00 p.m.

Time—2 Hours

Maximum Marks—40

N.B. :— (i) Attempt All questions.

(ii) Illustrate your answers with suitably labelled diagrams, wherever necessary.

1. What is Interaction of genes ? Explain supplementary factor with suitable example. 15

Or

(A) Explain Mechanism of crossing over. 8

(B) Explain inheritance of A B O blood groups in Man. 7

2. What is Mutation ? Explain structural alteration in chromosomes. 15

Or

(A) Explain Structure and Functions of RNA. 8

(B) Define pedigree analysis. Describe any seven symbols of Pedigree. 7

3. Attempt any *two* of the four. (each of 5 marks.) 10

(a) Back cross.

(b) Erythroblastosis Foetalis

(c) Hypertrichosis

(d) Klinefelter Syndrome.

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