



0076413

K19U 2283

Reg. No. :

Name :

V Semester B.Sc. Degree (CBCSS- Reg./Sup./Imp.)

Examination, November-2019

(2014 Admn. Onwards)

Core Course in Zoology

5B 08 ZLG: HEREDITORY SCIENCE

Time : 3 hours

Max. Marks : 40

- I. Answer any **one** of the following: (1×8=8)
- 1) Explain the phenomenon of Multiple allelism.
 - 2) Make a note on Linkage and Crossing over.
- II. Answer any **one** of the following: (1×8=8)
- 3) Describe the phenomenon of mutation.
 - 4) Explain Human genetics.
- III. Answer any **two** of the following: (2×4=8)
- 5) Make a note on male heterogamy and female heterogamy.
 - 6) Chromosome banding techniques.
 - 7) Give a brief account on PCR and Southern Blotting.
 - 8) Describe on supplementary interaction with example.
- IV. Answer any **six** of the following: (6×2=12)
- 9) Colour Blindness
 - 10) Lethal genes
 - 11) VSD

P.T.O.



- 12) Test Cross
- 13) Kappa particles
- 14) Epistasis
- 15) 21 trisomy
- 16) Pedigree analysis
- 17) Gynandromorphism
- 18) Alkaptonuria

V. Answer the following

(4×1=4)

- 19) Which of the following is a sex linked trait.
 - a) Haemophilia
 - b) Anaemia
 - c) Albinism
 - d) Polydactyly
 - 20) Dihybrid phenotypic ratio is
 - a) 3:1
 - b) 1:2:1
 - c) 9:3:3:1
 - d) 9:3:4
 - 21) X/A ratio in normal female is
 - a) 1.0
 - b) 0.5
 - c) 1.5
 - d) 0.6
 - 22) Synapsis occurs in which stage of cell division
 - a) Zygotene
 - b) Pachytene
 - c) Diplotene
 - d) Leptotene
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