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Reg. No. :		K18U	1530
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	er B.Sc. Degree (CBCSS – Reg./S Examination, November 2018 (2014 Admn. Onwards) CORE COURSE IN ZOOLOGY 5 B08 ZLG : Hereditary Science	More the followin	V. Ans
Time: 3 Hours	d) Polydesly. V	Max M	arks : 40
2) Make a note or	toplasmic inheritance. n polygenic inheritance and recessive	a) Lyon	(1×8=8)
II. Answer any one of the following:		a) 1 () c) 1 (5 an: @neseing ()	(1×8=8)
6) Chromosome b	n Chromosomal basis of sex determin panding techniques. A sequencing.	ation. Co	(2×4=8)
IV. Answer any six of the six o			(6×2=12)
10) Linkage groups11) Erythroblastosis12) Genic balance t	s foetalisis.		
•			

13) Ecogenetics of lung diseases.

14) Crossing over.

15) Klinefelter's syndrome.

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- 16) Pedigree analysis.
- 17) Southern blotting.
- 18) Holandric trait.

V. Answer the following.

 $(4 \times 1 = 4)$

- 19) Which of the following is a sex linked trait?
 - a) Haemophilia

b) Anaemia

c) Albinism

- d) Polydactyly
- 20) Genic balance theory was proposed by
 - a) Lyon

b) Johansson

c) Bridges

- d) None of these
- 21) X/A ratio in super female is
 - a) 1.0

b) 0.5

c) 1.5

- d) 0.6
- 22) Crossing over occurs in which stage of cell division?
 - a) Zygotene

b) Pachytene

- c) Diplotene
- d) Leptotene to be already a companion of the analytic at the fell of the series of the fell of the series of the fell of the f

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Reg. No. : .			

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

November 2017 (2014 Admn. Onwards) CORE COURSE IN ZOOLOGY 5 B08 ZLG: Hereditary Science

Max. Marks: 40

Time: 3 Hours

 $(1 \times 8 = 8)$

- Answer any one of the following:
- 1) Explain on Sex determination.
 - 2) What are mutagens and explain chromosomal aberrations?

(1×8=8)

- II. Answer any one of the following:
 - 3) Explain the phenomenon of multiple allelism.
 - 4) Describe any four autosomal recessive diseases.

III. Answer any two of the following:

 $(2 \times 4 = 8)$

- 5) Note on Environmental control of sex determination.
- 6) Explain Linkage.
- 7) Explain supplementary interaction of genes.
- 8) Note on shell coiling in limnaea.

IV. Answer any six:

 $(6 \times 2 = 12)$

- 9) Alzheimer's disease.
- 10) Y Linked Genes.
- 11) Gynandromorphism.
- 12) Kappa particles.
- 13) Haemophilia.
- 14) Crossing over.

P.T.O.



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- 15) Trisomy 18.
- 16) Back Cross.
- 17) Klinefelters syndrome.
- 18) Banding techniques.

 $(4 \times 1 = 4)$

- V. Choose the right answer:
 - 19) Synaptonemal complex formation occurs during b) Zygotene c) Pachytene d) Leptotene
 - a) Diplotene

- 20) Circle in a pedigree chart shows
 - a) Affected female

b) Affected male

c) Normal male

- d) Normal female
- 21) Which of the following is an example for single gene mutation?
 - a) Sickle cell anemia
- b) Albinism may street was not this

c) Phenylketonuria

- d) None of these was a section.
- 22) Genic balance theory was proposed by
 - a) Bridges
- b) Henking
- c) Baltzer
- d) Hugo Devries