

(4)

7. Write short notes on the following : 7½

erqecveeueeKele hej mebf#ehle eštheeCeUeeB eueeKeS :

(i) Multiple alleles

yeng Deueeue

(ii) Blood group inheritance

yue[«eje Jemeeiee

Unit-IV/FkeaeF-IV

8. Give an account on prenatal detection of genetic diseases. 7½

DeevegeabMkeae j eieell/keaei pevcehelle& peeele (Dee e[ŠkeMve) keae eLeJCe oeepeS-

9. Write short notes on the following : 7½

erqecveeueeKele hej mebf#ehle eštheeCeUeeB eueeKeS :

(i) Chromosomal aberrations

ieeGemešeele eLeheLeve

(ii) Eugenics

meep eveef/keaei

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B.Sc. (Part-I) Examination, 2015

ZOOLOGY

Third Paper

(Cell Biology and Genetics)

Time Allowed : Three Hours] [Maximum Marks : 50

Note : Answer five questions in all. Question No. 1 is compulsory and one question is to be answered from each unit.

keaje heeBe DeMveeMkeae Goej oeepeS- DeMve meB1 DeeeveeUe&nw
leLee DeUeekeae FkeaeF&mes Skeae DeMve keae Goej oree nww

1. (a) Describe the following in brief : 2×5
erqecveeueeKele keae mebf#ehle JeCeeke keaepeS :

(i) Turner's Syndrome

Šveš ue#eCe meceef°

(ii) Lampbrush Chromosomes

uonheyolle ieeGemeše

(iii) Alleles

Sueeue

(iv) Desmosomes

[mceeeemeeme

(2)

(v) Endoplasmic reticulum

DeleõÑÙeer j sŠkegüeece

(b) Differentiate between the following :

efrecveeÙeeKeele cellWelleYeeo keäcpeS : 2 × 5

(i) Transcription and Translation

DevegeKeeve SJeB Devegeeeove

(ii) Mitosis and Meiosis

meŠeer elleYeepeve SJeB DeDeñmeŠeer elleYeepeve

(iii) Point Mutation and Frame Shift Mutation

efyebg GÙheefj Jelette SJeB ðeäce eflemLeeheve GÙheefj Jelette

(iv) Homozygous and Heterozygous

meceÙeijcepeer SJeB efle-ecelÙeijcepeer

(v) Test cross and Back cross

hej e#eCe mekeáj Ce telLee helMÙe mekeáj Ce

Unit-I / FkeäF-I

2. Give an account of ultrastructure, biochemistry and functions of nucleus. 7 ½

keävõkeä keäer hej emelj ðevec, peÙej meelÙeeÙrekeäer SJeB keäelÙeeX keäe eflelej Ce oerpeS~

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(3)

3. Write short notes on the following : 7 ½

efrecveeÙeeKeele hej meñ#ehle eŠÙheäCeÙeeB efÙeeKeeS :

(i) Fluid mosaic model of Plasma membrane

hueepcee ePeuueer keäe lejue ceepkeä cešÙe

(ii) Cell cycle and its stages.

keäesÙekeäe ðeä SJeB Gmekeä ðej Ce~

Unit-II / FkeäF-II

4. Describe the structure of mitochondria and its functions. 7 ½

ceeFŠkeäee [ðee keäer melj ðevec SJeB Gmekeä keäelÙeeX keäe JeCee keäcpeS~

5. Write short notes on the following : 7 ½

efrecveeÙeeKeele hej meñ#ehle eŠÙheäCeÙeeB efÙeeKeeS :

(i) Suicidal bags

DeelcenlÙeelcekeä Leueer

(ii) Golgi bodies

ieeapkeäelÙe

Unit-III / FkeäF-III

6. Explain incomplete dominance with the help of suitable examples. 7 ½

GheÙejeä Goenj Ce okeáj DeñCeä ðeYeeelLee keäer JÙeeKÙee keäcpeS~

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P.T.O.