

(4)

Unit-III / FkaeF-III

6. Give a detailed account on anxiety disorders and personality disorders. 11

JUekete ekkaej ellSJeJUebalJe ekkaej ellkae Skeâ edemete eklej Ce oepes~

7. Write short notes on the following: 5½ × 2

- (i) Linkage
(ii) Memory

epvevedKele hej me#hle eShheCeeB edeeKeS :

- (i) menuivelee
(ii) mceele

Unit-IV / FkaeF-IV

8. Describe the methods for the detection of nucleic acids with examples. 12

vUekaekeâ Decueelkaes herUeeves kaer edeeDeeelkae Goenj Ce me#hle JeCete keeepes~

9. Write short notes on the following: 6 × 2 = 12

- (i) Hybridoma technology
(ii) DNA Drugs

epvevedKele hej me#hle eShheCeeB edeeKeS :

- (i) mekaej eyep Deesikea
(ii) [er Sve S DeeeDeeel

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Roll No. _____

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

GENETICS & GENOMICS

Paper - II

(Population, Genetics, Behaviour Genetics & Applied Molecular Genetics)

Time Allowed : Three Hours] [Maximum Marks : 75

Note : Answer five questions in all. Question No. 1 is compulsory. Remaining questions to be answered should be one question from each Unit. Illustrate your answers with suitable diagrams.

kegue heeBe DeMveelkae Goej oepes~ DeMve me# 1 DeeeDeeelkae Mese DeMveeoj DeUkeâ FkaeF&mes Skeâ DeMve kaâ neW Deheve Goej ellkaes GeUete edeSeelEje mhe,, keeepes~

1. Write short notes on the following:

epvevedKele hej me#hle eShheCeeB edeeKeS: 3 × 10 = 30

- (i) Genotype
peave De™he

(2)

- (ii) Point mutation
ejevog GI heefj Jel ette
- (iii) Phenocopy
uc#eCe keaele
- (iv) DNA probe
[er Sve S mehefj #ekeä
- (v) Electroporation
Jehede deJebvee
- (vi) Hardy-Weinberg equilibrium
ne[ea Jeeveyei& meecÜe
- (vii) Western blotting technique
Jemšve& Oeyyeekä j Ce Iekäveekäer
- (viii) Learning
DeeDeiece
- (ix) Inbred strain
Devle: depeele deYes
- (x) Heredity
DeevegebMekeäle

Unit-I / FkeäF-I

2. Discuss the different forces of evolution with example of mutation and natural selection. 11

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(3)

GI heefj Jel ette S Jeced dekeädelekeä J e j Ce keäe Goerj Ce odes nš e dekeäeme keä e deefvee yeuevllkeäer deJesvee keäepes~

3. Write short notes on the following: 5½ × 2

- (i) Allele frequencies
 - (ii) DNA polymorphism
- eqecveeüekete he j meš#ehle ešhheCdeeb eüekes :
- (i) e dekeäuheer DeeJesbeüel
 - (ii) [er Sve S yeng^mhelee

Unit-II / FkeäF-II

4. Differentiate between monogenic and polygenic diseases and discuss their mode of inheritance. 11

Skeä peereer S Jeyengpeereer j eieellcellDevlej mhe,, keäepes S J e b Gvekeä J e Meieeale keäer ekeäüee keäer e deJesvee keäepes~

5. Write short notes on the following: 5½ × 2

- (i) Modifier genes
 - (ii) Gene-gene interaction
- eqecveeüekete he j meš#ehle ešhheCdeeb eüekes :
- (i) [™]heevlej keä peere
 - (ii) peere-peere Devüeesüeekeäüee

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P.T.O.