

(4)

7. Write notes on the following: 7½

efrecveeueeKele hej eShheecUeeB eueeKeS:

(i) Phage lambda (λ)

heáepe ueemye[e (λ)

(ii) Microbial and recombinant products

j eiceeCeJeele leLee hegeUeekepe heoelel

(iii) Bacterial conjugation and Transduction.

peeteecJJeá meUejeve leLee hej>eáceCe-

Unit-IV/FkeáF-IV

8. Give a detailed account of genome imprinting and mitochondrial syndromes. 7½

mepceze DeUeáve leLee meSekeáCkeáde me#eCe keáe efemlele eflejeJ Ce oeepeS-

9. Write notes on the following: 7½

efrecveeueeKele hej eShheecUeeB eueeKeS:

(i) Inheritance of X-linked diseases

X-menueive efrecceefj UeeWkeáer Jemeeicele

(ii) Human Karyotype analysis

ceveJe ieCeme#e-De™he keáe efleMueseCe

(iii) Management of Genetic Disorders

DeevegeUeMeá J UeeDeUeeWkeáe OeyevOeve-

A

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Roll No. _____

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

GENETICS & GENOMICS

Second Paper

Time Allowed : Three Hours] [Maximum Marks : 50

Note : Answer Five questions in all. Question No. 1 is compulsory. Attempt one question from each unit.

keáue heeBe DeMveeUkeá Göej oeepeS- DeMve meB 1 DeceJeeUe keáeUkeá FkeáF&mes Skeá DeMve keáepeS-

1. Describe briefly the following: 2×10=20

efrecveeueeKele keáe me#ehle JeCete keáepeS:

(i) Cell mediated immunity

keáeUeMeáe peetele jeDe#ecelce

(ii) Pedigree Analysis

JemeeJeuere efleMueseCe

(iii) Bacterial Transformation

peeteecJJeá™heevleJ Ce

(iv) Metastasis

Dehej™heevleJ Ce

(2)

- (v) Genomic Instability
Genomikā DārmLej lēe
- (vi) HLA Complex
Sūe. Sue. S meēceBe
- (vii) Biological Carcinogens
pānlekeā kāmmej peve
- (viii) Turner's Syndrome
Šj veme& mebr#eCe
- (ix) Prenatal diagnosis
DemeJehelle& ef/eove
- (x) Molecular probes
DeecCJekā DevJeseer

Unit-I / FkēeF-I

- 2. What are Complement proteins? Describe classical Complement pathway. 7 ½
hej kēā Deēšere kēlē nī? eJēj mecele hej kēā heLe kēā JeCēte kēāpēS-
- 3. Write notes on the following: 7 ½
ef/ceveDeeKēle hej eŠhēeCēDeeB eDeeKēleS :

 - (i) Structure of Immunoglobulin
DeeJēj #eēiueyDegeve kēāer meJj Ūeve
 - (ii) Clonal Selection
kēāreēveDe JeJ Ce

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(3)

- (iii) Antigen processing and presentation.
DeeLepeve Dekeāj Ce SJeB DēmLegekeāj Ce-

Unit-II / FkēeF-II

- 4. Give an account of Cell transformation and Tumorogenesis. 7 ½
kēāesMekeāe™ heevleJ Ce leLee Deyēp GHeebe kēāe eJēJ Ce oepēS-
- 5. Write notes on the following:
ef/ceveDeeKēle hej eŠhēeCēDeeB eDeeKēleS :

 - (i) DNA markers
[ex. Sve.S. eJēvnkēā
 - (ii) Cell cycle and its regulation
kēāesMekeāe Ūeēā Je Gmekeāe ef/DeDeCe
 - (iii) Tumor specific genes and oncogenes
Deyēp eDeeMe° peere Je DeyēpDe peere

Unit-III / FkēeF-III

- 6. Describe the life cycle and advantages of any organism commonly used in genetic studies. 7 ½
DeevegeblMekeā DeŪeŪeve cell/GheDeeē nesves Jeeves ekeāmeer peere kēāe
peereve Ūeēā leLee ueeYe kēāe JeCēte kēāpēS-

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P.T.O.