

(4)

7. Write notes on any two of following: 11

11

- (i) 2D-electrophoresis
 - (ii) Transcriptome
 - (iii) Microarray technology

eʃvɛvɛdɛKele ekeâvnɛR oe hej eʃhheeCeJeeB keârɛpɛs:

- (i) 2D-pesie Fuck's theme
 - (ii) Šēvmeefähſece
 - (iii) uel eqüen ſeeſteſt ekéae

Unit-I V/FkedaF-I V

8. Define pharmacogenetics. Discuss the effects of genetic polymorphism on drug metabolizing enzyme system with an example. 11

Yeepepeveed/kekaer kelee nP GheUgeja Goenj Ce mesDeevede GheeheUjeen
ekaCJekeá ñCeueer celNDeevedejMekeká yentg'he lee keá ñYeJe keáer eJeJevee
keáeebeS~

9. Write notes on any two of the following: 11

- (i) Gene chips in disease profiling
 - (ii) Effect of SNPs on drug targets
 - (iii) Optimized drug therapy

efyecyeefueeKele ekeayneRoe hei eſtheeCeUeeB efyeeKeS:

- (i) DeeeOe ue#Ue hej DeevedeeMkeá yentMhelee keá ðeYeeje
(ii) j eie ðeeeæeFeeæe celleepreee eeehme keá ðeUeei
(iii) DeeeseeceeeFo [ðe eeej hee

A

(Printed Pages 4)

Roll No. _____

S-668

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

GENOMICS

Paper-III

Time Allowed : Three Hours] [Maximum Marks : 75

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

kegue heeße ðelmeelka Göj oeþpeS~ ðelme meb 1 Deefjeel
ðel Uekâ FkeâF& mes Skeâ ðelme keæþpeS~

1. Describe the following in brief : $3 \times 10 = 30$

epecveefueeKele keâe meh#ehle JeCelle keâeepeS :

- (i) Genome size
perreese Deekaaej
 - (ii) Proteome
Deekaaej UeestSkeea
 - (iii) Prokaryotic g
Deekaaej UeestSkeea peer

(2)

- (iv) Linkage
menuivelée
- (v) Gene mapping
peave ceeveeSeCe
- (vi) Pseudogenes
kešpeave
- (vii) Gene density
peave levelje
- (viii) CpG islands
CpG Eche
- (ix) NCBI
Sve meer year Deefi
- (x) Single nucleotide polymorphisms
DeevelebMekā yen helée

Unit-I / FkæF-I

2. What is genome? Differentiate between prokaryotic and eukaryotic genomes. 12
peavee kejlee nP keæflej Ueekaf Ueekaf keavee kea yede Delej mhe° keæfpeS~
3. Write notes on any two of following: 12
 - (i) Benefits of human genome project
 - (ii) Gene families and superfamilies
 - (iii) Mitochondrial genome

(3)

- efecveuedKele ekavneR oe hej eſtheCeJeeB efueKeS:
(i) Cetve peavee Deepeteš keā HeaJeo:
(ii) peave HeaJeueer SJeb mehej HeaJeueer
(iii) me\$keæeCekeæe peavee

Unit-II / FkæF-II

4. Give an account of comparative genomics as an aid to study the human disease genes. 11
Igjeveelcekaa peaveefakeine keæe elleJej Ce keæfpeS, Cetve effpebe peave kea mecyevöe cellleJeej keajves kea efuejes
 5. Write notes on any two of following: 11
 - (i) C-value paradox
 - (ii) Organization of genes in genomes
 - (iii) Conservation of genomes
- efecveuedKele ekavneR oes hej eſtheCeJeeB efueKeS :
- (i) meer-ceive hej e[ekine
 - (ii) peavee cellpeave keæe melle"ve
 - (iii) peavee mle#eCe

Unit-III / FkæF-III

6. Discuss the methods of prediction of gene and protein functions. 11
peave SJeb keæflej keæflej kea YedeJeJeeCeer keæe effmleej cellJeCekeæfpeS~