

(4)

7. Write notes on any two of the following:

ekravner oes hej eShredCelleB edredKeS : $4 + 3\frac{1}{2} = 7\frac{1}{2}$

(i) RNA interference

Deej Sve S nml#ebe

(ii) Translation is prokaryotes

Deekraij Ueesme cellŠvmeuehve

(iii) Structure of nuclear pore complex.

vUetkrailej heej keacheukraime keær mej Ueve-

Unit-IV/FkeæF-IV

8. What is oxidative Phosphorylation? Describe

F_0-F_1 particle with the help of diagram. $7\frac{1}{2}$

Deekraimekraie heæmheæj ekeaj Ce kebile nW F_0-F_1 keæCe keær medUeSe

JUeeKUee keæepes-

9. Write notes on any two of the following :

$4\frac{1}{2} + 3 = 7\frac{1}{2}$

ekravner oes hej eShredCelleB edredKeS :

(i) Endoplasmic Reticulum

Devle:öJUeer peedrekeæ

(ii) Structure of Plasma membrane

hueepcee ePuuuer keær mej Uevee

(iii) Cytoskeleton

keæMeekelakeæue

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

GENETICS & GENOMICS

Third Paper

(Basic Genetics)

Time Allowed : Three Hours] [Maximum Marks : 50

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.

keæue heæBe ælMveelkeæ Gøej oæepes- ælMve meb 1 DeedreJee&n
Mese ælMveeæj ælUekea FkeæF&mes Skeæ ælMve keæ nelW Deheve
Gøej ælMveæS GeUete æUeSeelWÆje mhe° keæepes-

1. Write short notes on the followings :

æfrecvedredKele hej meb#ehle eShredCelleB edredKeS : $2 \times 10 = 20$

(i) Chiasmata

keæUeepcesse

(ii) Lysosome

ueeFmeemeese

(2)

- (iii) Law of segregation
hele eklekaj Ce keae efreJece
- (iv) Centromere
mev šaseeDej
- (v) t-RNA
šer Deej SveS
- (vi) Codon
keaeš eve
- (vii) Polytene Chromosome
heueešere ieje meše
- (viii) Mitotic spindle
mecemšeer lakaš
- (ix) DNA polymerase
[er Sve S heueeešej pe
- (x) Okazaki fragments
Dekeapekeae K eC [

Unit-I / FkeaeF-I

- 2. Describe the mechanism of sex determination in drosophila and mammals. 7 1/2
[šmeeešeeve S Jeb m levoeešej Ueeell cell m euee efreDeeš Ce keae Deeešee keae JeCete keaepeš~
- 3. Write notes on any two of the following :
efreuve cell keae vne r oes hej eš hne C e Uee B e uee K e Ues : 4 + 3 1/2 = 7 1/2
 - (i) Mendel's law of Independent assortment.
cellue keae m J e l e v š e D e h e U e h v e keae e f r e J e c e

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(3)

- (ii) Molecular mechanism of Development.
melleOette keae DeeeDee keae eš eal Uee e De
- (iii) Crossing over.
peere e f r e c e U e

Unit-II / FkeaeF-II

- 4. Give an account of the structure, chemical composition & type of DNA. 7 1/2
[er Sve. S. keae meš Ueeve l c e k e a , j a m e e U e e t r e k e a m e l e e p e v e S J e b U e k e a j e l k e a e J e C e t e k e a e p e U e s
- 5. Write note on any two of the following:
efreuve uee K e l e c e l l k e a v n e l o e s h e j e š h n e C e U e e B e u e e K e S :

4 + 3 1/2 = 7 1/2

- (i) Semiconservative method of DNA replication
[er Sve. S. Uee l e k e a e l l e e f r e c e U e k e a e D e a e m e j # e C e U e e a l U e e
- (ii) Meiotic division of cells
keaeš m e k e a e D e e l l k e a e D e O e t e š e e r e l l e v e e p e v e
- (iii) Different types of RNA.
Deej Sve S kea e f r e f r e v e U e k e a j ~

Unit-III / FkeaeF-III

- 6. Explain Lac Operon model of gene regulations in prokaryotes. 7 1/2
U e k e a e j U e e š h e c e l l p e e r e e f r e J e c e v e k a u e k a e D e e h e j e v e c e e U e k e a e J e C e t e k e a e p e U e s

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P.T.O.