

(4)

Svpeefce keær keæUe&Ceeueer keæ JeCæe keæp&eS SJeb keæUe&DeCeeueer  
hej Teeheceve keæ ðeYeJe keæs mecePeefS~

7. Write short notes on any two of the following:

efrecveeueeKele cellmes ekeavneR oes hej meæ#ehle efShheCeer eueeKeUes

(i) Redox reactions  $5\frac{1}{2} \times 2 = 11$

efj [ekæine Deefvee&UesSi

(ii) Multienzyme complex

yen&svpeefce mekeæue

(iii) Michailis Menton Constant

ceeFkeæUeme ce&Sæve keævme&S

Unit-IV/FkeæF-IV

8. Explain the concept of Second messengers.

Discuss the role of secondary messenger in the regulation of enzyme activity. 12

e&Eteæle ceme&pej keær mekeæuhevve GoenjCe meehI oæpeS SJel  
Svpeefce meæ&æUelee cellGvekeæ Ueesioeve SJeb e&reUeceve eueeKeS~

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

efrecveeueeKele cellmes ekeavneR oes hej meæ#ehle efShheCeUe&B eueeKeS:

(i) End product inhibition.  $6 \times 2 = 12$

De&Ue GIheeo e&rej&e

(ii) Enzyme induction

Svpeefce Fv[kæUeve

(iii) Allosterism.

Sæe&f&S&Ue&fj pce

A

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Roll No. \_\_\_\_\_

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

BOTANY

Second Paper

(Cell & Molecular Biology)

Time Allowed : Three Hours ] [ Maximum Marks : 75

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

keæue heæ&le ðelVeeUkeæ Gøej oæpeS~ ðelVve me& 1 DeæveUe&æ&æ  
ðelUe&æ Fkeæ&F&mes Skeæ ðelVve keæ&peS~ Skeæ ðelVve keæ meYeæ  
GheKeC[e&Ukeæ Gøej Skeæme&le keæ&peS~

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

efrecveeueeKele keæ e&e&Ue cellme&æ&æ cellvee&KeS:

(i) DNA polymerase

[æ.Sve.S. heæ&Ue&æj p&e

(ii) Plant Sterols

heæ&he m&S&ej æ&æe

(iii) Storage polysaccharide

me&Ue&ve heæ&æme&æ&æj eF [

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P.T.O.

(2)

(iv) Microfibril

mīkrōfībrīl

(v) C-AMP

Ā-AMP

(vi) Anticodon

Anticodon

(vii) Mobile Carriers

Mobile Carriers

(viii) Isoenzyme

Isoenzyme

(ix) Oligomeric proteins

Oligomeric proteins

(x) Sphingolipids

Sphingolipids

Unit-I / Fkār-I

2. Write in detail about the following:  $5\frac{1}{2} \times 2 = 11$

Ādīkṣā kīcī keā ēlīmīte ēlījē Ce ēdīkṣā:

(i) Mitochondrial Complexes of ETC.

Mītkōndrīāl Kōmpleks of ETC.

(ii) Structural poly-saccharides

Struktūrāl pōly-sākārīdē

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(3)

3. Describe any two of the following:

Ādīkṣā kīcī kēlīmē ēkāvīnē oēs keā ēlījē Ce oēpēS:

(i) Basic amino acids  $5\frac{1}{2} \times 2 = 11$

Basīk āmīno āsīdē

(ii) Secondary structure of proteins

Secōndārī struktūr of prōtēīnē

(iii) Terpenes

Terpenē

Unit-II / Fkār-II

4. Explain the gene concept and describe in detail. 11

Ādīkṣā kīcī keā ēlīmīte ēlījē Ce ēdīkṣā:

5. Describe any two of the following:

Ādīkṣā kīcī kēlīmē ēkāvīnē oēs keā ēlījē Ce oēpēS:

(i) Transcription  $5\frac{1}{2} \times 2 = 11$

Trānskṛīptīōn

(ii) Use of Biotechnology in Agriculture

Biōtēknōlōjī keā ēlījē celīgṛīkṣā

(iii) Plasmids

Plāsmīdē

Unit-III / Fkār-III

6. Describe the mechanism of enzyme action and discuss the effect of temperature on enzyme activity. 11

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P.T.O.