

(4)

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

7½

- (a) Hugo-Devries
- (b) Natural polyploids
- (c) Turner Syndrome

efecveuedKele cellmes ekavneR oes hej meh#hle eStheCeUeb efueKeS:

- (a) Cellees [euej epe
- (b) Bekead ekia heuechueF [the
- (c) Šj vej emel[âse

Unit-IV / FkaF-IV

8. What is Ecology? Describe its relation with other disciplines.

7½

heej emLeel ekaer ell%eve kejke nñ Devile dle-eUellmes Fmekai mebyevOe
keáer elljelevee keáepeS~

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

7½

- (a) Free floating hydrophytes
- (b) Productivity concept
- (c) Xerophytic adaptations

efecveuedKele cellmes ekavneR oes hej meh#hle eStheCeUeb efueKeS:

- (a) mJelete hueejer peuesdVeo
- (b) G!heebloe mejeese
- (c) ce™odVeo Devjave

A

(Printed Pages 4)

S-635

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

BOTANY

Second Paper

(Cytology, Genetics, Evolution & Ecology)

Time Allowed : Three Hours] [Maximum Marks : 50

Note : Answer five questions in all. Question No.

1 is compulsory. Attempt one question from each Unit. All parts of a question be attempted together.

keque heeble ñMveelkei Goej oepeS~ ñMve meb 1 Desejeel&nñ
ñelÙeká FkæeF& mes Skeá ñMve keáepeS~ Skeá ñMve keá meYea
Yeeie meeLe-meeLe efekles preeves ÛeefhS~

1. Answer any ten parts of the following:

efecveuedKele cellmes ekavneRome Yeetlellkei Goej oepeS:

2×10=20

- (i) Aneuploidy
DemeceigCele
- (ii) Plastid inheritance
uelekeá JeMeeiedle
- (iii) B-chromosomes
yeer iGeme\$

(2)

- (iv) DNA model of Watson and Crick

Jeešmeve Je ešakeā keāe [er Sve.S. ceeue

- (v) Incomplete linkage

DheCe& menuivelēe

- (vi) Haemophilia

necessitateeuee

- (vii) Mutagens

Gheef Jelote peve

- (viii) Golgi bodies

ieeppe yeeēa

- (ix) Food chain and Food web

Keeāe eekuee Sjeb Keeāe preee

- (x) Halophytes

ueJeCeoedveo

- (xi) Ecotone

Fkeāeseye

- (xii) Telomere

Delle: KeC[

Unit-I / FkeāF-I

2. Write an essay on the structural changes in chromosomes of plant. 7½

heef eelkeā iegemeekelhej ūeveelceka heef Jelote hej eleyevoe elueKes

(3)

3. Write short notes on any two of the following: 7½

(a) Euchromatin and Heterochromatin

(b) Mitosis

(c) Chloroplast

ełecveuedKele cellkeavne hej met#hle ełsheCeūes elueKes :

(a) UteāesSve Sjeb nšj esasSve

(b) mecemēeCe

(c) ngl le uelkeā

Unit-II / FkeāF-II

4. Give an illustrate account of chromosomal theory of sex determination. 7½

ełue ełeOej Ce keā iegemeekel ełmeaeve le keā JeCelle keāepe~

5. Write short notes on any two of the following: 7½

(a) Restorer gene

(b) Dihybrid Cross

(c) Role of genetics in human welfare

ełecveuedKele cellkeavne oes hej met#hle ełsheCeūes elueKes :

(a) j mšej j peve

(b) ełmekaj >āeme

(c) Deevetjelkeā ełe%eve keāe peve keāuūeCe cellūeieoeve

Unit-III / FkeāF-III

6. Write about the natural selection theory of evolution. 7½

>āekeā ełekame keā hef ūeveelceka ełekā meddeleve keā ełmeaeve le keā JeCelle keāepeS~