

(4)

7. Write notes on any two of the following:

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

- (a) Plant succession in a pond
- (b) Adaptations of xerophytes
- (c) Energy flow in ecosystem

efrecveeekKele cellmes ekeavnR Oes hej eštheCeer eueekKelles

- (a) Ieeueeye cellweeoh DevegáceCe
- (b) ce™ oel/eod keá Devegáueve ue#eCe
- (c) heefj efmLeel ekeá lev\$e cellTpee& DeJeen

Unit-IV/FkeáF-IV

8. Give the classification of soils. Also give a comparative account of zonal, interzonal and azonal soils.

$$7\frac{1}{2}$$

cæe keáe Jeeekéaj Ce oeppeles peevue, Fvšj peevue SJeB Speevue
cæe keáe eleyeæeDe eDelej Ce Yeer oeppeles

9. Write notes on any two of the following:

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

- (a) Soil formation
- (b) Gully erosion and sheet erosion
- (c) Reclamation of usar soils

efrecveeekKele cellmes ekeavnR Oes hej eštheCeer eueekKelles

- (a) cæe efreceæCe
- (b) ieuæer Dehej ove SJeB hej le Dehej ove
- (c) Tmej cæe keáe Gæej

A

((Printed Pages 4)

Roll No. _____

S-641

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

(Old Course)

BOTANY

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. All parts of a question be attempted together.

keáue heeDe DeMveellkeá Góej oeppeS- DeMve meb1 DeceveeDe&rnw
DeUkeá FkeáeF&mes Skeá DeMve keáeppeS- Skeá DeMve keá meYee
Yeeie meele-mele ekeáles peevs DeefnS-

1. Comment upon any five of the following:

efrecveeekKele cellmes ekeavnR heeDe hej eštheCeer keáej Ues :

(a) Inversion 5 × 4 = 20

Deleueeekéaj Ce (FveJepette)

(b) Ecological pyramid

heefj efmLeel ekeá ehej eæe[

(c) Test cross and Back cross

hej e#eCe mekeáj SJeB yeká >eæeme (mekeáj)

(2)

(d) Transition and Transversion

Šětrpelleve SJeš ŠěvmeJepote

(e) Soil Conservation

ceee mej #eCe

(f) Soil Profile

ceee heefj UUsokae

Unit-I / FkaeF-I

2. What do you understand by gene interaction?

Describe dominant and recessive epistasis giving suitable examples. 7 1/2

peare Devlej ekaUee (FvŠj SkelMeve) mes Deche keUee cePeles nP
Ghelegea Goenj Ce okaej DeYeeJeer SJeš DeDeYeeJeer SehemŠvme keae
JeCete keafj Ues

3. Write short notes on the following: $3 \times 2 \frac{1}{2} = 7 \frac{1}{2}$

(a) Salivary gland chromosome

(b) Nucleosome

(c) Sex determination

eFrecveeekKele hej mef#ehle eŠtheCeer eUeeKeeUes

(a) ueej «eUe iefemeŠe

(b) vUetkeueUeepeese

(c) eUee eUeeUee Ce

S-641

(3)

Unit-II / FkaeF-II

7 1/2

4. What do you understand by polyploidy? Name and describe the different types of polyploids and give the differences between autopolyploids and allopolyploids. 7 1/2

yenjegCele mes Deche keUee mecePeles nP eUeeUee Dekaej kea yenjegCele
keae veece yeeUes SJeš JeCete keafj Ues Deej mJey jegCele SJeš
hej yenjegCele (SueeeseueeUe[]) eeUeeUee eUeeKeeUes

5. Write notes on the following: $3 \times 2 \frac{1}{2} = 7 \frac{1}{2}$

(a) Translocation

(b) Physical mutagens

(c) Synthetic theory of evolution

eFrecveeekKele hej eŠtheCeer eUeeKeeUes

(a) mLeeveUee Ce (ŠěvmeueekaUeeve)

(b) YeeUeekeaeUe GIheefj JeeUee keaej kea

(c) eUeekeame keae keaeSece (eUeeUeeŠkeae) eUeeveUee

Unit-III / FkaeF-III

6. What is meant by eco-system? Describe any terrestrial eco-system. 7 1/2

heefj eUeeUeekeae UeeŠe keae keUee UeeUeeUee nP ek
Škeae mLeeveUee
heefj eUeeUeekeae UeeŠe keae JeCete keafj Ues

S-641

P.T.O.