

(4)

7. Give an illustrated account the process of symbiotic Nitrogen fixation in leguminous plants. 7½

men peddele veeF Šapeve mLej ekeaj Ce kear beseallee keae medeSe JeCalle
keaepeS~

Unit-I V / Fkaf-I V

8. What are the different types of growth movements found in plants? 7½

heellcellhealles peeves Jeaves alledVeve beseaj kea eekle collect keade me
nØ

9. Discuss the process of vernalization in detail.

7½

Jevet&eeF pelleve kear beseallee kear elemleej mes keaepeS~

A

(Printed Pages 4)

Roll No. _____

S-642

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

(Old Course)

BOTANY

Paper-III

(Plant Physiology)

Time Allowed : Three Hours] [Maximum Marks : 50

Note : Answer five questions in all. Question No. 1 is compulsory. In addition to this, attempt one question from each of the four units. Attempt all parts of a question together.

keje heale ðMvælka Gøej oepes~ ðMve meb1 Des/eleJænw Fmekæ
Des/efj ðea Üej FkafFUedlcellmes ðel ðækæ FkæF&mes Skea ðMve
keaepeS~ Skea ðMve kei meYer Yei eMkeæ Gøej SkeæmæLe oepes~

1. Differentiate between the following: 4x5=20
- Anaerobic respiration and fermentation
 - Absorption and Adsorption

(2)

- (c) Stomata and Lenticels
 - (d) Calcium deficiency and Nitrogen deficiency
in plants
 - (e) Wilmott's bubbler and Ganong's potom-
eter

executive Kele kâ ceÔue Devlej mhe° keâeþeS:

- (a) DeJeeÙJeetje Mjemeve SJob ekeACJeve
 - (b) DeJelmeeseCe SJob DeeDelMeeseCe
 - (c) j ðef SJob ueſvšmesie
 - (d) keiefuMeÙJece keäer keäeceer SJob veeF šApeve keäer keäece
 - (e) eleucees yeyuej SJob iereče heešsesesj

Unit-I / FkéâéF-1

2. Write short notes on:- $2\frac{1}{2} + 2\frac{1}{2} + 2\frac{1}{2} = 7\frac{1}{2}$

- (a) RUBISCO
 - (b) Factors affecting enzyme activity
 - (c) Donan equilibrium

efecveefueKele hej meh#ehle eStheCeJeeB dueeKelles :

 - (a) RUBISCO
 - (b) efcaCeJekeâ efaJeeMeeuelee keâes feYeeefele keâj ves Jeeues keâej keâ
 - (c) T egeevee mellegeeve

(3)

3. What are essential nutrients? Discuss the role of Fe and Zn in plants. 7½

DeeJelMÜekâ vÙetšÜevšthe kët e nesn  Fe SjebZn k a cen|Je k e 
elleJejCe k e e be S~

Unit-II / Page-III

4. "Transpiration is a necessary evil". Explain. Add a short note on opening and closing of stomata. 7½

"DemJeove Skeá DeeJelMücká yej eF&ntr mecePeeFÜes j v0c̄ká Keyeve
Je yevo neres keáer SkeáUee hej Skeá med#ehle eßtheCeer eueKeS-

5. Explain the process of cyclic and non-cyclic photophosphorylation. 7½

Üxeætje SJeb DeÛe eætje heæš ebeæmheæsj eFuMev keær efealUee keæ
mecePeeFÜes

Unit-III / FkæF-III

6. Discuss the process of glycolysis and formation of Acetyl co A during respiration. 7½

iueeFkeæsuefne me keâr eSeâlJee SJeB Smœsue keâ Svpeefce S keâ
el/ceeeFkeâr SeSeâlJee keâr el/JeSevee keâeepes~