

(4)

Unit-III / FkæF-III

6. Describe the causal organism, symptom and control of "Red rot of sugarcane". 11

ieVes keâ ueue me|[ve (j[j[) jeie keâ keâj keâ jeieCeg ue#eCe Sje
efelDev\$eCe keâe JeCeLe keâepeS~

7. Give the disease cycle of the following: 11

efecveuedKele keâ jeie Ûeâa oepes:

- (i) Root knot of vegetables

meypelJeelWcelWcde ieB' jeie

- (ii) Loose smut of wheat

ienBkeâ MuLe keâ[jeie

Unit-IV / FkæF-IV

8. Discuss the various environmental factors that affect the development of a fungal disease. 12

keâlekeâ jeie keâ ellekeâeme celWheJeelej Ce keâej keâ cenlJe keâe
yel eeFües

9. Write notes on the following: 12

efecveuedKele hej e\$theCeUeeB duekKeS:

- (i) Bacterial toxins

peelCeg effe

- (ii) Biocontrol

pelekeâ j ekâLeece

A

(Printed Pages 4)

S-643

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

(For Regular & Exempted Students)

BOTANY

First Paper

(Microbiology & Plant Pathology)

Time Allowed : Three Hours] [Maximum Marks : 75

Note : Answer five questions in all. Questions No.

1 is compulsory. Beside, attempt one question from each of the four units.

keâje heâle ðellveilkâ Goej oepes~ ðellve meb 1 DeefleelJe&nW
Fmekâ Deeljej ðeâ Ûeoj FkæFÜeellcellnes ðel Ûekeâ FkæF&mes Skeâ
ðellve keâepeS~

1. Describe the following in brief: 30

efecveuedKele keâ me#ehle JeCeLe keâepeS:

- (i) Tobacco Mosaic

Segeleâs ceelâ

- (ii) Gram negative bacteria

«eece veleSJe peelCeg

(2)

(iii) T.I. Plasmid

Šer. Deef&hueepce[

(iv) Phytoplasma

heæF Šchuepcee

(v) Viroid

JeeF jee[

(vi) Capsomere

keahmeesceUej

(vii) Antibiotic

Deel op eælekaæ

(viii) Conidia

keæseep[Uee

(ix) Blight

yueeFš

(x) Xanthomonas

Unit-I / FkæF-I

2. Describe the multiplication of viruses in plants.

heohe elleeeCey keæ iæeve keæ JeCelle keæepeS~

11

(3)

3. Write notes on the following:

efecveefueKele hej eſthheeCeUeeB duueKes :

(i) Cucumber mosaic virus

keædeacyej ceepkeæa elleeeCer

(ii) Yellow-veiw mosaic of bhindi

efecC[er keæ heele elMeje ceepkeæa jeje

Unit-II / FkæF-II

4. Describe the various methods of genetic re-combination in bacteria. 11

pedeeCegcelheUeeUeeveesJeeueerdeUeeDeevedjeUeekeæ heyeJeCelle DeefeaUeeDee
keæ JeCelle keæepeS~

5. Write notes on the following: 11

efecveefueKele hej eſthheeCeUeeB duueKes :

(i) Potato scab

Deeuet keæ mkeay

(ii) Role of microbes in genetic engineering

pedeeškeæ Fypeefueej be cellme#cepeefueUeeWkeær Yetkeæ