

(4)

7. Write notes on the following : 4 + 3½

- (i) Bacterial transformation
- (ii) Phototrophic bacteria

efrecveueeKele hej ešthecelueeB eueeKell'es :

- (i) peeleecag™ heevlejCe
- (ii) Haešceš epekeá peeleecag

Unit-IV / FkeaeF-IV

8. Describe the various spore forms produced in the life cycle of fungi causing rusts and smuts.

j mš S Jebmceš G l heve keáj ves Jeeues keáJekaeell'keá peeleve Ueá celllyeveve
Jeeues yeapeceDjeell'keá heCek e l lej Ce oeppeles 7½

9. Differentiate between the following : 4 + 3½

- (i) Agaricus and Polyporus
- (ii) Asexual reproduction in Albugo and Aspergillus

efrecveueeKele keá ceUe Devlej yeleefUes :

- (i) Siesfj keáme S Jeb heeereheej me
- (ii) SueyUefees S Jeb Smhej epeueme cellWDeuefikeá epeveve

A

(Printed Pages 4)

S-631

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

BOTANY

First Paper

(Diversity of Viruses, Bacteria and Fungi)

Time Allowed : Three Hours] [Maximum Marks : 50

Note : Answer five questions in all. Question No.1 is compulsory and carries 20 marks. Attempt one question from each unit. These questions carry 7½ marks each. All parts of a question should be attempted together. keáue heeBe eelMveell'keá Goej oeppeS- eelMve meB1 DeevJeeUe&n
S Jeb20 Dekeael'keá nW eelUekea FkeaeF&mes Skeá eelMve keáeppeS-
FvecellWdeUekea eelMve 7½ Dekeael'keá nW Skeá eelMve keá meYee
Yeeie Skeá meele keáeppeS-

1. Write brief notes on : 10 × 2 = 20

efrecveueeKele hej meš#hle ešthecelueeB eueeKell'es :

- (i) Apothecium
Sheek.eeefmeUe
- (ii) Hfr bacteria
Hfr peeleecag

(2)

(iii) Circulative virus transmission

el'e-eeCe]eellWkeā heej Ūeeēuele heej ieeve

(iv) Pasteurization

heemŪej ekeāj Ce

(v) Nutrient agar

heesekā Sīeej

(vi) Sporodochium

mheej es[eskeāŪee

(vii) Viroid

JeeŪej eš[

(viii) Bacterial genome

peeteCe]eellWkeā Ūeehešekeā

(ix) Bacteriophage

peeteCelyeepea

(x) Enation

FveŪee

Unit-I / FkeāF-I

2. Draw a typical bacterial cell and describe the functions of its various cell components. 7½
- Skeā Ūe™heer peeteCeg keāesŪekeā keāe el'eše yeve es leLee Gmekeā el'eeŪee melleškeā YeeieellWkeā keāeŪeeX keāe el'eJej Ce oeepeŪes

S-631

(3)

3. Write notes on : 4 + 3½

(i) Structure of plant virus particles

(ii) Economic importance of fungi

el'eeveēueekKele hej ešsheCeer el'eeKeeŪes :

(i) heeohe el'e-eeCe]eellWkeāer mejj Ūeeve

(ii) keālekeāellWkeā Deeelekeā cenIJe

Unit-II / FkeāF-II

4. Describe the genome and replication of the tobacco mosaic virus. 7½

šeyekāes ce]peFkeā el'e-eeCeg keā Ūeehešekeā S b Gmekeā ieeēve keāe el'eJej Ce oeepeŪes

5. Write notes on : 4 + 3½

(i) ELISA

(ii) Visualization of plant viruses by transmission electron microscopy.

el'eeveēueekKele hej ešsheCeŪeeēB el'eeKeeŪes

(i) ELISA

(ii) heeohe el'e-eeCe]eellWkeā šeeŪmcelveve Fukeāšēve Éeje
ĀeP iele keājvee

Unit-III / FkeāF-III

6. Describe the role played by bacteria in the nitrogen cycle. 7½

veeFšēpeve Ūeeā cellpeeteCe]eellWkeāer Yeeēekeā keāe el'eJej Ce oeepeŪes

S-631

P.T.O.