

(4)

OR / DeLeJee

What are gram+ve and gram-ve bacteria? How they can be differentiated from each other?

«eece+ve SLeb «eece-ve me#cepceer keblee nP Ues Skeá othej's me  
ekraime Okraej eVe nP 11

5. Write short notes on the following : 6×2=12

efrecveeekete hej me#ehle eštheCeer eueeKES :

(a) Biodegradable plastics

pelle efrecveekaj Ceble hureefmškeá

(b) Bacterial transduction

peedeecJeká ššme[kalve

OR / DeLeJee

Give a brief account on bacterial diseases of humans.

cevegJeeWcelWme#cepceerJeeWÉje nesves Jeeueer keá yeej's cel  
ellemLeej mes GuueKe keáepes~ 12

A

(Printed Pages 4)

S-630

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

BIOTECHNOLOGY

Third Paper

(Industrial & Environmental Biotechnology)

Time Allowed : Three Hours ] [ Maximum Marks : 75

Note : Answer all the five questions.

meYeer heeble eelWveelWkeá Góej oeppeS~

1. Answer the following in brief : 3×10=30

(a) Define bioleaching

yeeJeeveeJehie keáes heej Yeekele keáepes~

(b) What do you mean by microbial Spoilage of Conned foods?

ššve efllyee yeb KeeÁe heoeLeeKkeáer eflkeáeile mes Deche keblee  
mecePeles nP

(c) Enlist any three methods of food preservation.

KeeÁe mejj #eCe keáer ekeávnreReere heae eflJeeWkeá veece yeeceFS~

(d) Name any three micro-organisms that are used in cheese ripening.

(2)

Úeep e keás heej hakele kaj veska eueS ekeavnere leare me#cepeedleuee  
keá veece yeleeFS-

(e) What are bacteriophages?

yekeásej Úecheape me keálee níp

(f) Define Putrefaction.

me[ve / heúve keás heej Yeekete keáapeS-

(g) Comment on the functions of plasmids.

hueepee[the keá keáeúek hej eStheCeer keáapeS-

(h) Define exotoxins and endotoxins.

Speešeekreive SJe S[ešeekreive keás heej Yeekete keáapeS-

(i) What is pasteurization?

hemšyej eFpeúve keálee níp

(J) What is the significance of biofertilizers in agro-economic system?

yeúecheášeareFpej med keár keáfe-DeedLekeá JÚeJemLee ceWkeálee  
cenIJe níp

2. Write a detailed note on the significance of Microbes in production of citric acid.

meeFeškeá Sehe[ keá Gtheeove ceWme#cepeedleueeMkeár cenIJe keá yeej:  
ceWemLeej mes eueeKeS- 11

(3)

OR / DeLeJee

Write short notes on the following:  $5\frac{1}{2} \times 2 = 11$

efrecveeúekEle hej me#chle eStheCeer eueeKeS:

(a) Fermentation

ekeáCJeve

(b) Carbon cycle in environment.

heúeelej Ce ceWkeáyeete Úeá

3. How Physical Chemical and Biological methods can be employed for waste water treatment? 11

Yeemlekeá, jmeúeerekeá Je pemlekeá heze eúeúeWÉ Deheemle° peue  
keáe Gheúej ekeáme úekeáj ekeáúee peelee níp

OR / DeLeJee

Draw bacterial growth curve. Write down any three methods which are used to measure bacterial growth. 11

peeeedCJekeá melleeúe Jeeá keás eúeúeúe keáapeS- peeeedCJekeá melleeúe  
keás veeheves keá eueS ekeavnere leare heze eúeúeúeúe GuueKe keáapeS-

4. What are major types of pollutants that cause Water Pollution? 11

peue keás oúeúe keáj ves Jeeves ceWÚe úeotekeáeW yeej s ceWúeúeúeKeS-