

(4)

(ii) Fungi

Histo

(iii) Rancidity

Kesjeeme

Unit-I V / FleaF-I V

8. (a) Discuss the sources of contamination of food and give two examples each for microbial spoilage of following mentioned foods: 3½

(1) Fresh food

(2) Canned foods

(3) Milk

KeeÅe mebteCe kai oes kei ekele cellotom lej helleka eueKej  
leLee evecveuedKele GeuuKele KeeÅe heoLe&kearm#cepelele  
elekade kei oes Goenj Ce oepes:

(1) leapee KeeÅe heoLe

(2) Šere effyeyeyo KeeÅe heoLe

(3) oDe

- (b) Irradiations can be used as a food preservation method. Explain it. 4

KeeÅe heoLe&kei mdy#eCe kai efueS ekej Ceve keae Gheljeesi  
nefie nñ JUeeKÜee keapeS~

9. Discuss in detail the methods of bacterial recombination. 7½

pealeedCjekai hajemleapeve heaeell eJeelekei elenl oej mesGuueKe kai oepes~

A

(Printed Pages 4)

S-740

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

CND

Second Paper

(Nutritional Biochemistry & Food Microbiology)

**Time Allowed : Three Hours ] [Maximum Marks : 50**

Note : Answer five questions in all. Question No. 1 is compulsory. Attempt one question from each unit.

kejue heeße ölmveelkai Göej oepes~ ölmve meb 1 Deefjeel&nw  
öelükeâ FleaF&mes Skeâ ölmve keapeS~

1. Answer the following in brief : 2×10=20

evecveuedKele kei Göej metthe celloopeS :

- (i) Comment on the functions of plasmids.

hueefoce[the kei keaeleekhej efttheCeer keapeS~

- (ii) Define septicaemia.

j òeadeeCCelëe keas heej Yeefele keapeS~

- (iii) Write down the differences between exotoxin and endotoxin.

Skepesskeeneve Sjeb SI[eskeeneve kei Deloj eueKeS~

(2)

- (iv) Name any two hormones that are secreted from pancreas.

ekāvnRoes neceare pees DeivÙeelMeje mes oeeelle kei  
vece eueKeS~

- (v) What is homolactic acid fermentation?

nessekeška Decue ekāCjeve keile nP

- (vi) How many ATPs are formed in the conversion of glucose into pyruvate during glycolysis?

iueFkeasfne Eej e heeF™ješ celluekeape kei ellefeceJe  
hej ekaleves S. Šer.heer yevels nP

- (vii) What is ammonification?

Deceſtehekaalove mes Deeh keile mecePeles nP

- (viii) What do you mean by diabetic ketosis?

ceOgen Decuej òalee mes Deeh keile mecePeles nP

- (ix) Name any two inhibitors of electron transport chain.

Fukeševe melleen eekuee kei ekāvnRoes ej e ekeadlk kei  
yeleefS~

- (x) What is microbial spoilage of food?

KeeÅe heoLekkeár m#cepelte kei ekeadlk keile nP

Unit-I / Fkäef-I

2. Discuss molecular aspect of transport in detail. 7½

melleinve kei DeecCjekeá he#e keáre elemleje JÙekKÙee keaceples

(3)

3. Write short notes:

7½

- (a) Passive Diffusion  
(b) Electron Transport chain  
(c) Nucleic Acids  
m#hle eShCeCer eueKeS:  
(ke) hefje e[he]peve  
(Ke) Fuksa Šemhees & Ueve  
(ie) vJekkeá Decue

Unit-II / Fkäef-II

4. Draw and explain Pentose Phosphate Pathway.

hešope heahaiš heeLejes keae eJeſeCe SJebJeCalle keajf ūes 7½

5. Explain  $\beta$  oxidation of fatty acids in detail. 7½

Jemeetje Decue keae  $\beta$  (yeš) Deekine[Meve elemleje ™he mesueKeS

Unit-III / Fkäef-III

6. (a) Draw the growth curve of bacteria. 3½

peleecCjekeá mellefke Jeá euefle keajf S-

- (b) Discuss any two methods to measure bacterial growth. 4

peleecCjekeá mellefke kei celuekeave keajves kei eueS ekavnel  
oes heaeleJuek keae GuueKe keapeS~

7. Write short notes on the following: 2½×3

e/evceueKele hej m#hle eShCeCer eueKeS:

- (i) Viruses  
eleecCer