

(4)

Code No. : B-249(A)

Roll No.....

ZalĀa-2. yac'a'šy ; Ēv j šy šyacytl aṁṁNṁṁcyšyā tñ'w rmat' n̄

Explain citric acid cycle and its significance.

OR

wyā šy Eqāqj u qĒ 'šy vḥ āvāh' n̄

Write a note on lipid metabolism.

ZalĀa-3. āvxā/zāšy vuāa j šy šyacytl āt' n̄

Explain the lytic development cycle of virus.

OR

Zāmkāušy ZānĒapšymā šyl āšyūānāo šyacytl āt' n̄

Explain the mechanism of antibiotic resistance.

ZalĀa-4. ; āwāzāšy qāāāāā šy ; āw'šy ; āāē šyl j j āēšylāk' n̄

Discuss the molecular basis of genetic recombination.

OR

kāwā/zātybātā šyl āšyūānāo šyā āvḍmā w'zāā šylāk' n̄

Describe in detail the conjugation process in bacteria.

ZalĀa-5. kāwā/zātybātā p' yā w'p'tāā p'āšyāā mā šyacytl aṁṁNṁṁ, cyšy tñ'w šyl j j āē šylāk' n̄

Explain the restriction and modification system of bacteria and discuss its significance.

OR

āvāsāā zāšyē šy āēD'p' Tāā 'ākāt t šyā ēāāē'ā yā'īm w'zāā šylāk' n̄

Describe different types of restriction enzyme with example.

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Annual Examination - 2017

B.Sc.-II

MICROBIOLOGY

Paper - I

MICROBIAL PHYSIOLOGY AND GENETICS

Max.Marks : 50

Min Marks : 17

Time : 3 Hrs.

1'iq B h'p'i ; t'pAy ; ānvi āēā ZalĀa Nā akāN'v šyēāā ; āāwāē'ēn h'p'r' t'pvi āēā ZalĀa mnā h'p'y' t'pāi ēēēāu ZalĀa Nēn h'p'i ; 'šyāryc'qN'v'v šyēān

Note : Section 'A', containing 10 very short answer type questions, is compulsory. Section 'B' consists of short answer type questions and Section 'C' consists of long answer type questions. Section 'A' has to be solved first.

h'p-'i '(Section-'A')

āāāāšym ; ān vi ēēēāu ZalĀa p'šy ēēēā 'šy uā āā; wā' uāp t'p āp n̄
(Answer the following very short-answer-type questions in one or two sentences) (1x10=10)

ZalĀa-1. uāā wānāē'ā t'pāq'sy m'w šyl tāāā r'Nḥ šyt Nā; mr cyšy qāēw'āā t'pšyāā yā qāēw'āā mā kāwā/zāšy āv' ywāāōšy ēquāāā Nēn

Which transport system is best suited for the transportation of nutrient present in the environment at extremely low level?

ZalĀa-2. kāwā/zātybātā p'āāšyāāšy ; Ēv šylā'qāāā kānā Nē?

Where is dipicolinic acid found in bacteria?

ZalĀa-3. 'všyāk šy 'šy ; 'zāšy yēqāā; ā' yāšyē'ā yāšyāā. 1'p qā šyā ē'qāāā Nānā Nē?

How many ATP are derived from complete oxidation of one molecule of glucose.

ZalĀa-4. 'vāšyāā yāšyāā ; ĩnt ē'qāā 'uā Nē?

What is the end product of glycolysis?

P.T.O.

