

C.U.SHAH UNIVERSITY

Summer Examination-2016

Subject Name: Microbial Physiology & Biochemistry

Subject Code: 4LS02MBO1/4SC02MPB1

Branch: B.Sc.(Microbiology)

Semester: 2

Date: 13/05/2016

Time: 10:30 To 01:30

Marks: 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
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Q-1 Attempt the following questions (14)

- a) Define continuous culture.
- b) Name any one non reducing disaccharide.
- c) Define Coenzyme.
- d) What do you mean by denaturation of DNA?
- e) The α and β cyclic forms of D – glucose are referred to as _____.
- f) Why base pair of G – C is more stable and stronger than A-T?
- g) The place at which substrate binds with the enzymes is known as _____.
- h) Name various methods to measure cell biomass.
- i) What is the fundamental unit of genetic information?
- j) Define polypeptide.
- k) What do you mean by colony forming units?
- l) Nucleotide is composed of _____.
- m) The lipid that functions as fuel reservoir in animal is _____.
- n) What is budding?

Attempt any four questions from Q-2 to Q-8

Q-2 Describe bacterial growth curve in detail. (14)

Q-3 Discuss the definition and importance of pure culture and describe streak plate, spread plate and pour plate methods of isolation (14)

Q-4 Attempt all questions: (14)
a) Name different RNA and describe their structures in detail. (7)
b) Describe the structure and function of mucopolysaccharides. (7)



