

# Shree H.N.Shukla College of Science Rajkot B.Sc. (Sem- V) (CBCS) [MB-502]: Prokaryotic Metabolism Unit Test exam Paper-2019

#### [Time: 2:00 Hour]

[Total Marks: 50]

[10]

## **Q-1 Short Answer Question**

- 1) Which of the following Bacteria have the Entener-doudoroff Pathway
- 2) Value of Km is depends upon ......
- 3) What is the first enzyme of T.C.A cycle?
- 4) How many ATPs are produced by oxidation of Palmitate?
- 5) What do Bacteria have in common with Archaea but not with Eukarya?
- 6) Which conditions are favourable for cyclic photophosphorylation?
- 7) What is importance of PPP?
- 8) Define Study state assumption.
- 9) Write a Equation of Line-wiver burck plote.
- 10) What is the limitation of M.M. equitation\_\_\_\_?

### Q-2 (a) Write answer any three

- 1) Write down the properties of regulatory enzymes?
- 2) Explain Transamination reaction of Amino acid?
- 3) Enlist the Enzymes involved in Regulation of EMP Pathway?
- 4) How many ATP and NADP generated during bacterial photosynthesis5) What is Km?
- 5) What is Km?
- 6) Enlist the 5 enzymes of T.C.A cycle?

### Q-3 Write answers any three.

- 1) Explain stickland reaction?
- 2) Explain Glyoxylate cycle?
- 3) Explain covalent modification with example.
- 4) Decarxylation of Amino acid.
- 5) Write a note on an oxygenic photosynthetic reaction in bacteria.
- 6) Write a short note on high energy compound in metabolisam.

### Q-4 Write answers any two.

- 1) Michaelis-menten Equation
- 2) T.C.A Cycle
- 3)  $\beta$ -Oxidation of Palmitic Acid
- 4) Role of Precurssor metabolites in Metabolism
- 5) Describe components and redox carriers of ETC.

#### **BEST OF LUCK**

# [5 x 2=10]

[3x5=15]

[5x3=15]