



Symbol of Secularism
& National Integration

**ANJUMAN-I-ISLAM'S
KALSEKAR TECHNICAL CAMPUS, NEW PANVEL**

School of Pharmacy

*Approved & Recognised by: All India Council for Technical Education and Council of Architecture, New Delhi
Directorate of Technical Education, Govt. of Maharashtra Affiliated to: University of Mumbai*

**S. Y. B. Pharm. (Semester –III)
Periodic Theory Examination (2013 – 2014)**

Subject: Biochemistry-II
Marks: 15 M

Date: - 3/9/2013
Time: - 11.00 am-12.00 pm

All Questions are compulsory.

Questions

Marks

Q.1: Fill in the blanks

(4 Marks)

- Citric acid cycle mainly involves the oxidation of -----
- is the central molecule in carbohydrate metabolism.

Q.2 Justify the statement

(1 Mark)

Pyruvate finds profound importance in metabolic process.

Q.3: Attempt any two of the following:

(7 Marks)

- Describe biosynthesis of Pyrimidine base pair of DNA.
- Explain the biosynthesis of Adenosine mono phosphate (AMP).
- Describe purine biosynthesis in detail.

Q.4: Attempt any two of the following

(6 Marks)

- Why TCA cycle is known as open cycle? Draw metabolic map of TCA enlisting enzymes in it.
 - Explain phosphogluconate pathway in detail.
 - Discuss gluconeogenesis and glycogenesis in brief with pathways.
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