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**PK-416**

**M.Sc. IV Semester Chemistry (Reg./ATKT)  
Examination June 2018**

**BIOCHEMISTRY**

**Paper - III**

*Time Allowed : Three Hours]*

*[Maximum Marks : 85*

**Note :** Attempt all questions.

**Q.1.** Choose the correct answer:

i) Structural component of Haemoglobin is :

- (a) Manganese
- (b) Zinc
- (c) Iron
- (d) Chlorine

(2)

ii) Which of the following components accept only one electron ;

- (a) Oxygen
- (b) FMN
- (c) FAN
- (d) Cytochrome b

iii) The term enzymes are coined by

- (a) Pasteur
- (b) Buchner
- (c) Urey Miller
- (d) Kuhne

iv) Which of the following are reduced coenzymes? <https://www.onlinebu.com>

- (a) NADH and FADH<sub>2</sub>
- (b) NAD<sup>+</sup> and FAD
- (c) ATP and GTP
- (d) Coenzyme A and Ubiquinone

v) In one of the following stages of cell division, the DNA content is doubled it is :

- (a) G<sub>1</sub> phase
- (b) G<sub>2</sub> Phase
- (c) Metaphase
- (d) S Phase

(3)

**Unit - I**

- Q.2. What is DNA polymerase III, explain its function in brief.

**OR**

What is Myoglobin? Explain the function of Myoglobin.

**Unit - II**

- Q.3. Define biological Nitrogen fixation and explain its importance.

**OR**

Explain structure and function of proteins in electron transfer system.

**Unit - III**

- Q.4. Discuss in detail (any two)
- Fischer's lock and key mechanism
  - Michael's - Menten and Lineweaver Burk plots.
  - Explain Mechanism in Isomerisation reaction.

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*P.T.O.*

(4)

**Unit - IV**

- Q.5. What are coenzymes and cofactors? Give some examples of coenzymes and the reactions in which they are involved?

**OR**

Explain methods of immobilization of enzymes and explain its industrial application.

**Unit - V**

- Q.6. Explain the structure of DNA and RNA in living system.

**OR**

What are the functions of cell membrane? Explain in detail.



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