

**Madhya Pradesh Medical Science University (MPMSU)****1st Professional MBBS Examination****Paper Code: 16M00B05****2016 (Supplementary)****Biochemistry Paper- I**

Time 3 Hours

Max. Marks: 50

Note: (a) Attempt all questions in the same serial order.

(b) Draw well labelled diagrams wherever necessary.

Q1. Enumerate major sources of Vitamin A, describe its functions and effects of its deficiency. (1+3+1) 5

Q2. What is oxidative phosphorylation. Discuss the steps of the same and mention its significance. 5

Q3. Write short notes on:

- | | |
|--|---|
| a) Mitochondria | 3 |
| b) Fluorosis | 3 |
| c) Digestion and absorption of Triacylglycerols. | 3 |
| d) Biomedical importance of derivatives of Cholesterol | 3 |
| e) Glycosylated hemoglobin | 3 |
| f) Regulation of blood glucose | 3 |
| g) Prostaglandins and their importance | 3 |
| h) Plasma proteins | 3 |
| i) Urea cycle | 3 |
| j) Phenyl ketonuria | 3 |

Q4. Write in brief:

- | | |
|--|---|
| a) Enumerate Compounds formed from Glycine | 1 |
| b) Enumerate functions of methionine | 1 |
| c) Define monoclonal antibody | 1 |
| d) Write the normal serum sodium and potassium level | 1 |
| e) Enumerate mechanism of enzyme inhibition | 1 |





- f) Enumerate functions of Iron 1
- g) Detoxification by conjugation 1
- h) Name the derivatives of tryptophan 1
- i) List 2 differences between foetal and adult forms of haemoglobin. 1
- j) Define respiratory quotient 1

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