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Date: 02-08-2019

0819E379

**First Year MBBS Examination
I MBBS Biochemistry Paper 2**

Time: 3 hours

Max Marks: 50

Instructions:

1. Answer to the points.
2. Figure to the right indicates marks.
3. Use separate answer books for each section.
4. Draw diagrams wherever necessary.
5. Write legibly.

Section 1

1. Write short notes on the following:

- a) Primary Gout(A. 548) (C. 394) (10)
- b) Phenylketetauria
- c) Vitamin B12 and Folate Trap (A. 478) (C. 156)

2. Write Short notes of (any three):

- a) Post Translational Modifications(A. 584) (C.561) (9)

- b) Properties of Genetic Code (A. 580) (C.551)
- c) tRNA
- d) Biologically important free nucleotides
- e) Lac Operon model(A. 596) (C.567)

3. Discuss Any TWO:

- a) Metabolic Changes during (6) prolonged starvation(A. 122) (C. 383)
- b) Balanced Diet(B. 761) (C.514)
- c) Interlinking of metabolism at tissue level

Section 2

4. Write Short notes on (any two):

- a) Functions of plasma (10) Proteins(A. 385) (C.183)
- b) Maintenance of Serum Calcium and Phosphorus balance
- c) Trace elements(A. 491) (C.405)

5. Write Short notes on (any three):

- a) Functions of Vitamin C(A. 481) (9) (C.132)

- b) Pellagra (A. 470) (C.141)
- c) Vitamin A deficiency
- d) Purine Salvage pathway (A. 546) (C. 391)
- e) Vitamin E Sources and Biochemical Functions

6. Case report:

A 25 year old woman was admitted in hospital with complaints of breathlessness, palpitations with generalizations edema. She also complained of weakness of muscles, difficulty in walking. She gave history of having consumed ultra-refined polished rice for past two years. She also avoided pulses, nuts and oil seeds in her daily intake in an attempt to lose weight. Erythrocyte transketolase activity was measured to be low.

Answer the following questions (any six):

(6)

- 1) What is your probable diagnosis?
- 2) Which micronutrients is deficient in diet?
- 3) Mention its active forms

- 4) Why this women suffered from deficiency of this micronutrient?
- 5) Erythrocyte Transketolase is associated with which pathway?
- 6) Give biochemical basis above of signs and symptoms
- 7) What is Wernicke's korsakoff encephalopathy associated with deficiency of this micronutrient?
- 8) Mention any one biochemical reaction where this micronutrient is acting as coenzymes.

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