

First Year MBBS Examination

I MBBS Biochemistry Paper 2

Date: 06-12-2017

AH 3466

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. Give an account of: (any two) (10)
 - a. Gout (A. 548) (C. 394)
 - b. PCR (A. 612) (C. 594)
 - c. Genetic engineering
2. Write Short notes on (any three) (9)
 - a. Western blot (A. 609) (C. 589)
 - b. Monoclonal antibody
 - c. Genetic code (A. 580) (C. 551)
 - d. Post-translational modifications (A. 572) (C. 547)
 - e. Telomere

3. Write Short notes on (any two) (6)

- a. Balanced diet (B. 761) (C.514)
- b. PEM (A. 516) (C.516)
- c. Obesity (A. 517) (C.325)

Section 2

1. Give an account on (any two) (10)

- a. Iron deficiency causes and manifestation
- b. Urea cycle (A. 258) (C.337)
- c. Important products synthesized from Glycine (A. 268) (C.342)

2. Write Short notes on (any three) (9)

- a. Biochemical role of Vit. C (A. 481) (C. 132)
- b. Methyl folate trap
- c. Deficiency manifestations of Vit. D (A. 459) (C.127)
- d. Purine salvage pathway (A. 546) (C. 391)
- e. Biologically important nucleotides

3. Write Short notes of (any six): one year old child with delayed milestones was brought to hospital. His mother gave the history of mousy odour from diapers (6)

- a. What is the probable diagnosis?
- b. What is the biochemical cause for mousy odour?

~~c. What are inborn errors of aromatic amino~~

acid metabolism?

- d. What are essential amino acids?
- e. Name the test for diagnosis of this condition
- f. What dietary advice is to be given to this child?
- g. Which non-essential amino acid become dietary essential in this child?
- h. Name important products synthesized from aromatic amino acids.

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