

**MK 16806****First Year MBBS Examination****I MBBS Biochemistry Paper 2**

Date: 07-12-2018

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. Biochemical functions and deficiency manifestations of thiamin (A. 471) (C. 135)
- b. Structural features of DNA
- c. Protein malnutrition disorders (A. 516) (C. 516)

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

- a. Post translational modifications (A. 572) (C. 547)
  - b. Genetic code (A. 580) (C. 551)
  - c. Principle and applications of PCR (A. 612) (C. 594)
  - d. Mutations (A. 591) (C. 535)
-

e. Gene therapy (A. 604) (C.625)

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

- a. Metabolism in starvation (A. 122) (C. 383)
- b. Importance of carbohydrates in diet (A. 513) (C.506)
- c. BMR (A. 512) (C.504)

## **Section 2**

**4. Give an account on (any two) (10)**

- a. Detoxification of ammonia (A. 258) (C. 335)
- b. Regulation of iron turnover and its disorders
- c. Phenylketonuria

**5. Write Short notes on (any three) (9)**

- a. Pellagra (A. 470) (C.141)
- b. Allopurinol is used in treatment of hyperuricemia. Why?
- c. Scurvy (A. 482) (C.134)
- d. Antioxidant vitamins (A. 429) (C. 659)
- e. Salvage pathway of purines (A. 546) (C. 391)

**6. Write Short notes of (any six) (6)**

- a. Glutamate is regarded as "collection centre" of amino group
  - b. Dietary fiber should be consumed in diet
  - c. t-RNA plays an important role in translation (A. 578) (C. 81)
-

- d. Raw eggs should not be consumed
- e. For Parkinson disease DOPA is used not dopamine as a line of treatment
- f. Albumin is used as an antidote for heavy metal poisoning
- g. Orotic aciduria is a disorder of pyrimidine metabolism
- h. Vitamin K helps in blood coagulation

\*\*\*

www.FirstRanker.com