

Date: 15-01-2010

0819E379

First Year MBBS Examination

I MBBS Biochemistry Paper 2

Time: 3 hours

Max Marks: 50

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 of the following (10)

a) Replication of DNA. (A. 559) (C.524)

b) Catabolism of purines & hyperuricemia
(A. 547)(C.394)

c) Functional classification of proteins with example. (A. 43) (C. 63)

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

a) Silent mutation (A. 591) (C.535)

b) m-RNA & its functions (A. 570) (C. 81)

c) Post translational modifications (A. 584)
(C.561)

d) Restriction endonucleases (A. 601)
(C.579)

e) Role of copper in the body (A. 503)
(C.416)

3. Discuss Any TWO (6)

**a) Purine salvage pathway. (A. 546)
(C.391)**

b) Denaturation of proteins (A. 40) (C.61)

c) Pellagra (A. 470) (C.141)

Section 2

4. Write Short notes on (any two) (10)

a) Metabolism of tyrosine (A. 288) (C.346)

b) Urea cycle (A. 258) (C.337)

c) Functions and regulation of serum calcium (A. 492) (C. 405)

5. Write Short notes on (any two) (9)

a) Transamination (A. 256) (C. 332)

b) Vitamin E: Sources and functions (A. 460) (C.128)

c) Hartnup's disease (A. 296) (C.654)

d) Selenium (A. 504) (C.421)

e) Second messengers. (A. 623) (C.430)

6. Give your comments with justification of Any SIX: 35 year old pregnant woman from poor family came with a complaint of weakness Breathlessness and fatigue. On examination she was pale, her hemoglobin was 7.0gms % & peripheral smear showed hypochromic microcytic R.B.Cs. (6)

a) What is your diagnosis?

b) What is RDA of Iron in adult female?

c) What is RDA of Iron during pregnancy?

d) Name two important factors which increase iron absorption in G.I.T

e) Name protein which transports iron.

f) Name proteins which store iron in the body

g) How much is total iron present in the body?

h) Name the condition where iron overload occurs.