Date: 02-02-2021

0819E379

First Year MBBS Examination

I MBBS Biochemistry Paper 2

Time: 3 hours

Max Marks: 100

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. Fill in the blanks: (6)

a. SDA value for proteins is

_____

b. Blood Urea Nitrogen = Blood Urea X

_____

c. The jumping genes are also called

_____

d. The guardian of the genome is

_____

e. In Eukaryotes the mRNA during transcription is synthesized by enzyme.

_____

f. The names of two light chains of Ig are _____ and

_____

2. Choose the correct option in the following multiple choice questions: (4)

a. Western blotting techniques is for detection of: a) Protein b) RNA c)DNA d) All

b. Tumour marker used for the diagnosis and management of ovarian cancer: a) TPA b) PSA c) CA-125 d) VMA

c. Xeroderma Pigmentosum occurs due to defect in: a) Base excision repair b) Double strand break repair c) Nucleotide excision repair d) Mismatch repair

d. Monoclonal antibodies are prepared by cloning: a) Myeloma cells b) Hybridoma cells c) T-lymphocytes d) B-lymphocytes

3. Clinical Case Study: A two day old baby on examination was found to be icteric. Laboratory findings shows serum billrubin was 12.8 mg/dL: (15)

a. What is the probable diagnosis?

b. What are the precursors of bilirubin and what are different types of bilirubin?

c. Which type of bilirubin is high in this disease?

d. What can be the enzyme defect in this disease?

e. How is the above disease treated?

4. Write short notes on (Any five): (10)

a. Supports of uterus

b. Foot drop

c. Ligaments of hip joint

d. Microanatomy of trachea

e. Typical Intercostal space

f. Openings in diaphragm

Section 2

5. Explain briefly (Any three): (15)

a. Thoracic duct

b. Dorsalis pedis artery

c. Adductor canal

d. Portocaval anastomosis

6. Describe stomach under following headings: (20)

a. Gross features

b. Relations

c. Blood supply and lymphatic drainages

d. Clinical anatomy

7. Write short notes on (Any five): (10)

a. Microanatomy of ureter

b. Medial longitudinal arch of foot

c. Right coronary artery

d. Perineal body

e. Nerve supply of urinary bladder

f. Plantar aponeurosis

8. Explain briefly (Any four): (20)

a. Interior of right atrium

b. Bronchopulmonary segments

c. Coeliac trunk

d. Gluteus maximus muscle

e. Extensor Retinaculum of ankle