

## MBBS I (First) Professional Examination 2015-16

Course Code: MBS103 Paper ID: 0322242

Biochemistry -II

Time: 2 Hours 40 Minutes Max Marks: 40

Note: Attempt all questions. Draw proper diagrams to support

your answer.

## Part 'B'

- 1. State dietary requirement, sources, absorption, transport, storage, functions, deficiency and toxicity manifestations of
- 2 Describe the process of replication in prokaryotes. Name two drugs inhibiting the enzymes of bacterial replication.
- Give an account of different laboratory investigations performed to assess liver function.
- 4. Write short notes on the following:

(4x4=16)

- Essential fatty acids
- Hormonal regulation of water and electrolyte balance b)
- Regulation of blood calcium level
- d) Biochemical functions of vitamin K

## MBBS I (First) Professional Examination 2015-16

Roll No.	Student's Name
	*
Student's Signature	Invigilator's Signature
Course Code: MBS103	Paper ID: 032224

Biochemistry - II Part 'A'

Time: 20 Minutes Max Marks: 10

- Note: 1. Attempt all questions and return this part of the question paper to the invigilator after 20 Minutes. Please tick (√) correct one only. Cutting, overwriting or any other marking are not allowed.
  - 3. For answering please use Ball- pen only.

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d Arginine

Major cation of ICF is: 0.3

> Na\* a) b)  $K^+$ Ca2+ c)

Mg<sup>2+</sup> d) Q.4 The normal concentration of sodium in

plasma( mEq/L) is: 105-120

b) 115-130 135-145 c) 150-165 d)

Q.5 Which of the following is a cause of hyponatremia:

Cushing Syndrome Addison's disease b)

Prolonged cortisone therapy c)

d) Pregnancy

Q.6 Kayser-Fleisher ring is associated with abnormal metabolism of:

> a) Iron b) Iodine

c) Copper d) Zinc

Coenzyme involved in hydroxylation of proline and lysine in collagen synthesis is:

Nicotinic acid Pantothenic acid b)

Retinoic acid c)

d) Ascorbic acid

Erythrocyte transketolase activation can be 0.8 used for assessing nutritional status of:

Thiamine

b) Riboflavin Niacin

c)

Pyridoxine d)

d) Hay's test

Q.17 The only fat- soluble vitamin that has coenzyme function:

a)

D b)

c) d) K

Q.18 Thermogenic action of food is highest for:

Carbohydrates a)

b)

c) Proteins

d) Fibres

Q.19 The anion gap in normal health is about

(mEq/L): 6-12 a)

12-18 b)

c) 18-24

24-30 d)

Q.20 The normal pH of blood has a range of: www.FirstRanker.com

7.15-7.25 7.25-7.35 a)

b)

7.35-7.45 c)

d) 7.45-7.55

www.FirstRanker.com Q.10 Which one of the following is involved in

primary immune response: IgG a)

Phenylalanine.

IgM

d)

c) IgD d) IgE

P.T.O. Q.11 Largest in size among all immunoglobins

(Igs) is: IgM

b) IgA

IgD c) d) IgE

Q.12 Pyridoxal phosphate is the coenzyme of:

 $B_1$ b)  $B_2$ 

 $B_6$ c)

d)  $B_{12}$ 

Q.13 Xeroderma pigmentosum occurs due to defective:

> Mismatch repair a)

Base excision repair b)

Nucleotide excision repair c)

d) Double strand break repair

Q.14 All are characteristics of genetic code except:

Universality

b) Specifictiy

c) Overlapping

Degeneracy d)

All of the following are phase-II reactions Q.15 except

Conjugation

b) Sulfation

c) Acetylation Hydrolysis

d)

All of the following are used to detect bile

pigments in urine except: a)

Fouchet's test Ehrlich's test

b)

Gmelin's test