

Enrollment No: _____

Exam Seat No: _____

C.U.SHAH UNIVERSITY

Summer Examination-2017

Subject Name : Clinical Biochemistry

Subject Code : 2SC01CLB1

Branch: PGDMLT

Semester : 1

Date : 22/03/2017

Time : 10:30 To 01:30

Marks : 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
 - (2) Instructions written on main answer book are strictly to be obeyed.
 - (3) Draw neat diagrams and figures (if necessary) at right places.
 - (4) Assume suitable data if needed.
-

Q-1. Complete the following sentences by choosing correct word given in the brackets:

1x14=14

- (a) ATP synthesis takes place in _____. (Lysosome /Mitochondria).
- (b) 70 S Ribosomes found in _____ cell. (Prokaryotic /Eukaryotic)
- (c) Ribose is a _____ sugar. (Hexose /Pentose).
- (d) Glucose and galactose are _____ of each other. (Anomer/Epimer).
- (e) _____ is reducing sugar. (Sucrose /Maltose)
- (f) Conversion of glucose to glycogen is known as _____.(Glycogenesis/ Gluconeogenesis)
- (g) End product of purine catabolism is _____. (Uric acid/fatty acids)
- (h) The normal level of calcium in plasma is _____mg/dl. (9 to 11 / 40 to 110)
- (i) Cobalt containing vitamin is _____. (Riboflavin /Cobalamin)
- (j) Amino acid change in linear sequence is known as _____. (Mutarotation/ Mutation).
- (k) The normal blood urea level is _____mg/dl. (20 to 40 / 140 to 210)
- (l) Respiratory distress syndrome is due to deficiency of _____. (Cephalin /Lecithin)
- (m) Bile salts help in the absorption of _____.(Amino acids/Lipids)
- (n) Bilirubin in blood is carried by _____. (Albumin /Globulin).

Attempt any four from Q-2 to Q-8:

Q-2. Write notes on the following-

2x7=14

- (a) Functions of polysaccharides
- (b) Isomerism in monosaccharides



OR

- (a) Fatty acids
- (b) Derived lipids

Q-3 Write notes on the following-

2 x7=14

- (a) Uncouplers
- (b) Electrophoresis

OR

- (a) Renal regulation of blood pH
- (b) Immunoglobulins

Q-4 Write short notes on the following-

5+5+4=14

- (a) Plasma proteins
- (b) Denaturation of proteins
- (c) Classification of amino acids

OR

- (a) Watson Crick model of DNA
- (b) Vitamin B₁ & B₂
- (c) Vitamin C

Q-5. Write short notes on the following-

5+5+4=14

- (a) Sickle cell anemia
- (b) Biochemical Functions of iron
- (c) Carnitine transport system

OR

- (a) Thyroid function tests
- (b) Fatty liver
- (c) Atherosclerosis .

Q-6. Explain the following-

2 X 7=14

- (a) Deamination and its significance
- (b) Phenylketonuria

OR

- (a) Gluconeogenesis
- (b) Digestion of carbohydrates

Q-7. Discuss the following-

2 X 7=14

- (a) Uronic acid pathway.
- (b) Glycated hemoglobin

OR

- (a) Regulation of plasma calcium level
- (b) Biochemical functions of iodine, copper & fluoride



Q-8. Describe the following-

2 x 7=14

- (a) Types of enzyme inhibition
- (b) Mechanism of enzyme action

OR

- (a) Cytoplasm and its Organelles
- (b) Nutritional disorders

