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2019 Scheme

Q.P. Code: 116001

Reg. no.:		
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First Professional MBBS Degree Supplementary (SAY) Examinations May 2023 Biochemistry - Paper II

Time: 3 Hours

- Answer all questions to the point neatly and legibly Do not leave any blank pages between answers Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

Long Essays

(2x15=30)

(5+5+5)

(5x8=40)

(5x4=20)

(10x1=10)

(1+7)

Total Marks: 100

 42-year-old obese lady presented with intolerance to fatty foods and pain in right abdominal region. On examination, her eyes were yellowish; stools had clay-colored appearance. Her investigations revealed the following. Serum bilirubin -18 mg/dl Direct bilirubin-17 mg/dl

AST-35 IU/L

ALT-40 IU/L

ALP-400 IU/L

- a) What is the probable diagnosis
- b) What is the normal serum Bilirubin level
- c) Describe the catabolism of Heme.
- d) What is the biochemical basis of clay colored stools
- e) What will be the probable urinary findings in this patient (1+1+8+1+4)
- 2. Structure, types and functions of immunoglobulins.

Short essays

- 3. Normal serum calcium and its regulation.
- 4. What are the causes, biochemical findings and compensatory mechanisms in metabolic acidosis. (4+1+2+1)
- 5. Phase I detoxification reaction.
- 6. Absorption, transport and storage of iron.
- 7. What is the role of buffers in regulating blood pH.

Short answers

- 8. List the blot/blotting techniques and the applications of each type.
- 9. Keratin.
- 10. Outline the pathway of purine catabolism.
- 11. Micro arrays.
- 12. Role of oxidative stress in pathogenesis of cancer.
- **Give Precise Answers**
- 13. Enzyme defect in Lesch Nyhan syndrome.
- 14. Functions of iodine.
- 15. A patient presented with excretion of urine more than 20 litres per day. Specific gravity of his urine sample was 1.002. What is your diagnosis.
- 16. Degeneracy of genetic code.
- 17. What is the role of Telomerase enzyme.
- 18. Fastest moving plasma protein in electrophoresis is------
- 19. Two copper containing enzymes.
- 20. Name four oncogenes.
- 21. One example for Prion disease.
- 22. Reference interval of serum sodium and potassium.