



## 2019 Scheme

**Q.P. Code: 116001**

**Reg. no.: .....**

**First Professional MBBS Degree Supplementary (SAY) Examinations**

**May 2022**

**Biochemistry - Paper II**

**Time: 3 Hours**

**Total Marks: 100**

- 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)**

1. A 42-year old obese lady presented with pain abdomen. She also complaints of passing clay coloured stool on examination there was yellowish discoloration of skin.
  - What is the diagnosis.
  - Describe the laboratory findings in hemolytic, hepatocellular and obstructive jaundice.
  - Van den Bergh reaction.
2. Define translation. Describe the steps of Translation. Add a note on its inhibitors.

**(2+9+4)**

**(2+9+4)**

### **Short essays**

**(5x8=40)**

3. Define Detoxification. Mention four reactions of Phase 2 detoxification.
4. What are Oncogenes. Name four tumour markers with their clinical relevance
5. Explain renal regulation of maintaining blood pH
6. What is the normal serum calcium level. How is it regulated.
7. Enumerate the steps of purine catabolism. Add a note on gout.

**(6+2)**

### **Short answers**

**(5x4=20)**

8. Biochemical role of iron.
9. Ig G
10. Passive immunity
11. Creatinine clearance tests and its significance
12. Collagen

### **Give Precise Answers**

**(10x1=10)**

13. Give the normal reference range for serum potassium
14. Give an example of post transcriptional modification
15. Give the normal anion gap
16. Two conditions causing reversal of albumin : globulin ratio
17. Give two applications for PCR
18. Define metabolic acidosis
19. Give the normal reference range for serum phosphorous
20. Give two features of genetic code
21. Name two zinc containing enzymes
22. Two enzymes as antioxidants

