



THE SUPERIOR COLLEGE, LAHORE

2nd YEAR MBBS

ANNUAL EXAMINATION 2020

BIOCHEMISTRY

(SEQ's)

Time Allowed: 2 hours

Roll No. F18-143

Total Marks: 37.5

Instructions

1. The SEQ's part is to be submitted within 2 hours, Extra time will not be given
2. Neat Hand Writing use of margin and marker for headlines will increase the presentation of your paper.
3. Do not write your name or disclose your identity in anyway.

- Q No. 1. What is oxidative phosphorylation? Mention synthetic and physiological uncouplers with their mode of action. (3)
- Q No. 2. Enumerate pancreatic enzymes with their functions. (3)
- Q No. 3. a. Write down the steps of Embden Meyerhof Pathway with enzymes and factors. (3)
b. Explain the regulation of glycogen metabolism (3)
- Q No. 4. What are lipoproteins? Classify them mention the sites of synthesis and functions of HDL. (3)
- Q No. 5. Write down the steps of synthesis of steroid hormones with enzymes and factors (3)
- Q No. 6. Describe the urea cycle with enzymes and factors (3)
- Q No. 7. How purines are catabolized? Mention the steps with enzymes and factors. (3)
- Q No. 8. Mention metabolic effects of cortisol on carbohydrates, proteins and fat metabolism (3)
- Q No. 9. Draw the structure of transfer RNA, explain its salient features. What is the biological role of transfer RNA? (3)
- Q No. 10. Write short notes on
a. Gout (2.5)
b. Myxedema (2.5)
c. Metabolic alkalosis (2.5)