



ENDOCRINOLOGY- July 17, 2020
SECOND YEAR MBBS – SEQs

Time Allowed: 2½ Hours

Q No. 1.

- a. What is second messenger cyclic AMP? How it is formed? Name the hormones which mediate signaling through cAMP. (5)
- b. Discuss How Growth hormone's effects are diabetogenic? (5)

Q No. 2

- a. Briefly explain how the secretion of insulin takes place from beta cells of pancreas after a carbohydrate rich meal. (5)
- b. Write down the metabolic effects of glucagon. (5)

Q No. 3

- a. Mention the synthesis of T₃ and T₄ along with its regulation. (5)
- b. A 50 years old woman presents with hoarseness of voice. She has history of fatigue, weight gain and cold intolerance. What is the likely diagnosis and treatment? (5)

Q No. 4

- a. Write down the synthesis of Cortisol. (5)
- b. Enlist the hormones which are protein in nature (5)

Q No. 5

- a. What are the non-metabolic effects of Cortisol? (5)
- b. Write down the steps for synthesis of epinephrine. (5)

Q No. 6

- a. Write a note on Diabetes Insipidus. (5)
- b. Compare and contrast Gigantism and Acromegaly. (5)

Q No. 7

- a. 17 years old girl presents with lack of sexual development. Her height is 4 feet 2 inches, growth is proportionate and she is very intelligent. What is her likely diagnosis? What treatment will be given? (5)
- b. Enlist Hyperglycemic hormones. (5)