

AZRA NAHEED MEDICAL COLLEGE LAHORE

END MODULAR TEST
MBBS Second Year 2019-20
(Physiology-Subjective)

INSTRUCTIONS

- 1-All subjective part is to be submitted **within 2:10 minutes**, no extra time will be given.
2-Neat handwriting, use of margins will increase the outlook /presentation of your paper.

ATTEMPT ALL QUESTIONS; ALL QUESTIONS CARRY EQUAL MARKS.

TOTAL MARKS = 30
TIME = 40 min

DATED: 15.7. 2020

- Q1.A) Write down the Chemical Classification of hormones with examples. (3)
B) Draw a diagram to show the mechanism of action of steroid hormones. (2)

Q2 Munir was worried about the extraordinary height of his younger son. At the age of 12 years he was having large size hands & feet than the normal. Laboratory investigations revealed more than normal concentration of Growth hormone.

- i) What is most probable diagnosis? (1)
ii) What are the effects of this hormone on carbohydrate metabolism? (2)
iii) Compare & contrast the pituitary dwarfism to Cretinism. (2)

Q3.A) When TSH act on thyroid follicle, what series of reaction occur for the synthesis of Thyroid hormone.

B) A 50 years old lady came to doctor & complained about husky voice, weight gain & easy fatigability. She also told that she prefer to live in warm room. On Examination, her pulse was 55/min. Non pitting type of edema of legs & features of peripheral vascular disease due to atherosclerosis.

- i) What is most probable diagnosis? (.5)
ii) Cause of edema & atherosclerosis in this patient. (1)
iii) What is the effect of this Hormone on heart & CNS . (1)
iv) Name the test which will help out in diagnosis. (.5)

- Q4. A) Write down the normal value of serum calcium & ionized Calcium (1)
B) How the normal calcium level is regulated in the body (Calcium Homeostasis). (2)
C) What is tetany? Give the pathophysiology of this disease? (3)

Q5.A) 20 years old boy consults a physician & complains about increased volume & frequency of micturition, thirst & increased appetite. He also gives history of generalized weakness & weight loss .His fasting blood glucose is 170 mg/dl.

- i) what is most probable diagnosis?(1)
ii) what is the physiological basis of increased in urinary volume & frequency & increased thirst & appetite?(1)
iii)What is the role of deficient hormone regarding fat metabolism (1)
B) Compare & Contrast the pituitary D;M with pancreatic & adrenal D;M.(2).

Q6. 50 years old person having destruction of adrenal cortex due to tuberculosis is referred to medical specialist .On examination he was having Hypotension, extreme muscle weakness & melanin pigmentation which was prominent on lips & nipples. Lab investigations showed hyponatremia, Hyperkalemia & mild acidosis.

- i). What is most likely diagnosis? (2)
ii). Give precisely the cause of each clinical feature & lab investigations mentioned in this scenario. (3)