

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 = 50
TIME = 2hours.

DATED: 26.8 2020

- Q1 .Adnan was drinking water hurriedly, he aspirated & start coughing.
i)In your opinion which stage of swallowing did not occur properly.(1)
ii)Name the different stages of swallowing.(1.5)
iii)Explain the series of events which take place during pharyngeal stage of swallowing.(2.5)
- Q2. A student came in emergency & told to doctor that one day before he had meal from canteen ,after that he started feeling heaviness & increase in abdominal pressure ,then he started vomiting
i) Where vomiting center is located? (1)
ii). What is the role of chemoreceptor trigger zone? (1)
iii) What is pathway of vomiting reflex? (3)
- Q3. A) Enumerate the Types of gland present in stomach. (1)
B) Which cells are stimulated to produce HCL, describe basic mechanism of its secretion? (3)
C) What is the role of Gastrin in HCL secretion? (1)
- Q4..A) When TSH act on thyroid follicle, what series of reaction occur for the synthesis of Thyroid hormone. (2.5)
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)
- Q5. 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)
- Q6. 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? (2)
- Q7.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?(2)
B) Compare & Contrast the pituitary D;M with pancreatic & adrenal D;M.(2).
- Q8. A). Enumerate the steps of spermatogenesis. (2.5)
B). Name the Hormonal factors that stimulate the spermatogenesis. (1)
C). What is the site of secretion & functions of Testosterone? (1.5)
- Q9.A) Enumerate the Phases of ovarian cycle with hormone involved. (1.5)
B) Describe the sequence of events taking place in ovary on 14th day of 28 day female sexual cycle? (3.5)
- Q10.A) Neelum was married 4 years ago but still she had no child, she told the doctor that She had normal menstrual cycles. The doctor is thinking of absence of ovulation. In your opinion.
a) What methods will be advised by the doctor to check whether ovulation is Occurring. (2)
b).Compare the actions of estrogen & progesterone on breast & uterus? (3)