

Physiology Paper II( Question bank )

**Q-1 write appropriate answers Endocrines 10**

- a) Define a hormone
- b) Name the hormones of posterior pituitary
- c) Name the hormone of par inter media and write its main function
- d) Name two hormones of thyroid gland
- e) Cretinism is result of which hormone
- f) Regretion the expression of which hormone
- g) Secondary sexual charectars are due to which hormones
- h) What is panhypothyroidism
- i) Name the two hormones of pancreas for carbohydrate metabolism
- j) Define feed back mechanism

Digestive system total 6

- a) Function of canine
- b) Define mastication
- c) What is anti peristalsis
- d) List two functions of stomach
- e) Name the contents of gastric pits
- f) Name two proteolytic enzymes of pancreatic juice
- g) Two functions of HCL

Metabolism

- a)two functions of carbohydrate
- b) what is glycolysis
- c)how many mols of ATP are produced during citric acid cycle
- d)what is first reaction of citric acid cycle

Nerve muscle physiology

- a) define a neuron
- b) write function of myelin sheath
- c) what is action potential
- d) what is sarcomere

Reproductive

- a) what is menarche
- b) Write 2 functions of estrogen
- c) Two functions of ~~estrogens~~  $I-H$ .
- d) Two functions of sertoli cells

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Vitamins

- a) define a vitamin
- b) write chemical name of vitamin E and K
- c) what is Nyctalopia
- d) two clinical presentations of xerophthalmia
- e) two properties of vitamin C
- f) what is daily requirement of vit D in adult and children
- g) write the name of antiberiberi vitamin
- f) what is the basis of classification of vitamins

Enzymes

- Define a substrate
- Define an enzyme
- What is zwitterions

CNS

- a) Name the division of brain
- b) What is sensitization
- c) Two functions of cerebellum
- d) Define neurotransmitters
- e) What is withdrawal reflex
- f) Define ascending tract
- g) What is hemiplegia
- h) Two clinical features of lower motor neurons

Q-2 write short answers -----Endocrines

- a) classical picture of pituitary dwarf
- b) oxytocin
- c) explain milk ejection reflex
- d) antidiuretic hormone

- e) action of glucagon
- F) melanin synthesis and MSH regulation

#### Digestive system

- a) mastication'
- b) peristalsis
- c) HCL synthesis in stomach
- d) Defecation reflex
- e) salivary Glands
- f) functions of spleen

#### Metabolism

- a) Glycolysis
- b) Essential Amino acids
- c) Beta Oxidation
- d) Electron transport system
- e) Energetics of TCA cycle

#### Nerve Muscle Physiology

- a) Explain resting membrane potential
- b) Give properties of nerve fibers
- c) Describe the neuromuscular junction
- d) Name the muscle proteins, explain their chemical nature

#### Q---3 Write short Answers of

##### Vitamins

- a) Write deficiency of vitamin A
- b) Write classical picture of rickets
- c) Write pellegra
- d) Megaloblastic anemia in vitamin B12 deficiency
- e) Sources of vitamin K
- f) Classification of vitamins
- g) Antisterility vitamin
- h) Vitamin B2 deficiency

Reproductive system

- a) control of estrogen and progesterone in menstrual regulation
- b) role FSH on ovary
- c) androgens and their role
- d) Expression of testosterone

Enzymes

- a) Effect of substrate concentration on enzyme action
- b) Classification of enzymes
- c) Enzymes in diagnostic value
- d) What is a active site of enzyme explain its importance

Nutrition and balance diet

- a) Role carbohydrate in balance diet
- b) Kwashiorkor
- c) Obesity
- d) Balance diet

Q-4) Long answer question

10 marks

- a) classify Hormones, explain mechanism of hormone action
- b) name the posterior pituitary hormones, write their roles
- c) hyper secretion of pituitary gland in young age
- d) synthesis of melanin under the control of MSH

Digestive system

- a) write in detail composition and functions of saliva
- b) Mechanism of formation of HCL in stomach write 2 Important functions of HCL
- c) write a account on succus entericus, with its digestive role
- d) explain chemistry, action and regulation of Gastrin

Reproductive system

- a) Write in detail the process of spermatogenesis
- b) Write phases of menstrual cycle with role of estrogen and progesterone
- c) Write an account on ovarian steroids

Central Nervous System

- a) write the origin, course and termination of Phramidal tract
- b) explain a reflex arc with diagramme
- c) write the difference between upper motor neuron and lower motor neuron

Q-5

Long Answer question

Endocrine system

- a) What is a hormone?
  - b) Name the hormones secreted by anterior pituitary gland
  - c) Write growth hormone in detail?
  - d) Add a note on gigantism.
- B)
- a) define Digestion ,
  - b) write composition of gastric juice
  - c) write how Hcl is formed by parietal cells
  - d) add a note on protein digestion in stomach
- C)
- a) define a vitamin
  - b) write plant and animal sources of vitamin A
  - c) write its deficiency symptoms
  - d) write its role in visual cycle
- D)
- a) what is synaptic transmission
  - b) write how synaptic transmission occurs

- Q-6)
- c) what is post synaptic response
  - d) add a note on action of acetyl choline reproductive system
- A)
- a) define menstrual cycle
  - b) write in detail the various phases of cycle
  - c) what is role of ovarian steroids in the cycle
  - d) role of FSH/LH in this cycle

#### ENZYMES

- B)
- a) Define a enzyme?
  - b) write classification of enzymes
  - c) write effect of substrate concentration on enzyme action
  - d) add a note on allosteric site

#### NUTRITION

- C)
- a) what is nutrition
  - b) write the basic constituents of nutrition
  - c) what is BMR and what is its significance
  - d) write a note on malabsorption syndrome

#### Q-7 A CNS

- a) write origin
- b) Its course and termination of pyramidal tract
- c) Add a note on hemiplegia
- d) add a note on EEG

Metabolism

- B) a) define the caloric value of food
- b) what is TCA cycle
- c) give details of TCA cycle
- d) add a note on energetic of this cycle

Nerve Muscle Physiology

- A) a) what is a neuron
- b) write different types of neurons
- c) write electrical properties of nerves
- d) write importance of myelinated sheath