ATAL BIHARI VAJPAYEE MEDICAL UNIVERSITY, LUCKNOW MBBS 1 st PROFESSIONAL EXAMINATION - JAN -2023

Raju, a 45 year male came to hospital with complaints of tingling, numb fatigue since three months. He is a pure vegetarian with nor

SUBJECT: PHYSIOLOGY - PAPER - I

Max. Marks: 100

Note: Attempt all questions. Answer Part- I and Part - II in separate answer books. All part of a question should be

PART - I

s and

PAPER CODE:

enzyme is secreted in response to:

es. On lab investigation his hemog persegmented neutrophils. His mean corpusculat vo

was 108 fL, mean corpuscular hemoglobin (M) was 48 pg. a) What could be probable diagnosis

% and peripheral blood smear showed large

b) Give resons for the same

answered together.

Q.1 Long Answer Question

c) Explain the mechanism for development of this disease

examination, his skin was pale. There was seasory ssaid in

d) Give the physiological basis of sign and symptoms

e) Give function, absorption & metabolism of the substance responsible for the given condition

(3x 5= 15 Marks) (within 500 words) Q.2 Short Notes Questions a) Primary active transport

Gastric emptying c)

Wallerian degeneration & regeneration Q.3 Short Answer Questions (within 100 words)

Substance used to measure extracellular fluid (ECF)

(5x 2 = 10 Marks)

a) Post-prandial alkaline tide

b) Oxygen debt

compartment is:

b)

c) White and Red muscle fibers.

Major cross matching d) **Multiple Choice Questions**

Functions of gall bladder

(10 x 1 = 10 Marks) Pancreatic juice rich in water and electrolyte and poor in

a) Cholecystokinin a) Deuterium oxide b) Secretin b) Evans blue dve c) Gastrin c) Aminopyrine d) Pancreozymin d) Sucrose The ATPase activity of which of the following protein is Which of the following is the most important altered to regulate skeletal muscle contraction: cholagoque: a) Myosin a) Secretin b) Actin b) CCK c) Troponin c) Gastrin d) Tropomyosin d) Bile salts Which coagulation factor is Vitamin K dependent: Gap junctions are made up of proteins called : a) V a) Clathrin b) VI b) Cadherin c) VII

c) Connexin d) Calcineurin Preganglionic parasympathetic nerve fibers are: a) Long and unmyelinated

d) VIII Maximum potassium ion secretion is seen in : a) Saliva

b) Gastric secretions

b) Short and unmyelinated

c) Colonic secretions c) Long and myelinated d) Jeiunal secretions d) Short and myelinated 10 In smooth muscle calcium calmodulin complex activates:

Repolarization of ventricular muscle: a) Occures last at Apex

a) Muscle phosphorylase b) Protein kinase b) Begins at AV node c) Glucokinase c) Begins in epicardium d) 2.3 DPG d) Begins in septum