



RAN - 2106000302020002

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S.Y. Physiotherapy Examination September - 2023

Pharmacology and Biochemistry

सूचना : / Instructions

(१)

नीचे दशविले निशानीवाणी विगतो उत्तरवली पर अवश्य लपववी.
Fill up strictly the details of signs on your answer book

Name of the Examination:

S.Y. Physiotherapy

Name of the Subject :

Pharmacology and Biochemistry

Subject Code No.: **2106000302020002**

Seat No.:

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Student's Signature

SECTION-I (BIOCHEMISTRY)

Q: 1 Long questions. (Any One)

10 × 1 = 10

1. Write type, difference and diagnosis of diabetes mellitus. Enumerate complication of Diabetes mellitus and explain biochemical reason and effect of diabetes ketoacidosis.
2. Enumerate factor affecting Enzyme activity. Explain type of enzyme inhibitions with examples in detail. Explain difference in Function of Glucokinase and Hexokinase on bases of its Vmax and Km.

Q: 2 Short notes. (3 out of 4)

5 × 3 = 15

- a. Define Protein Denaturation. Give It's significant & causative factor
- b. Mucopolysaccharide.
- c. Formation of eicosanoids and explain its inhibitor with significance.
- d. Difference between Kwashiorkor & Marasmus

- Q: 3** **Justify following statements. (5 out of 6)** **3 × 5 = 15**
- For estimation of blood sugar, blood is collected in fluoride bulb.
 - Blood Buffers act quickly but not permanently.
 - "TCA cycle is amphibolic in nature"
 - Tyrosine becomes an essential amino acid for patients of phenylketonuria.
 - Vitamin B12 deficiency cause pernicious anemia
 - Telomerase inhibitors can be use in treatment of malignancy.

PHARMACOLOGY

Q: 1 What Is Distribution Of Drugs? What is Pka Value? Give Salient Features Of Aminoglycosides **10**

Or

Q: 1 Name Three Drugs Of Ppi. Justify Use Of Carbidopa In Parkinsonism, Give Uses Of Metronidazole **10**

Q: 2 **Write Any Three -** **(15)**

- Heparin
- Explain Biphasic Action Of Salicylates & Limitation Of Morphine
- DmDs In R.A
- Classify Immunosuppressant ,Give Detail Of Azothiaprism

Q: 3 **Write in Short. Any five** **(15)**

- Justify use of Anticholinergic in Parkinsonism & Organophosphorous Poisoning .
- Ciprofloxacin is Preferred in UTI and Biliary Tract Infection, Why ?
- Differences of Centrally Acting and Peripherally Acting Skeletal Muscle Relaxants.
- Explain Mechanism of Action of Counter Irritant, What is Vesicant ?
- Precaution in I/V Therapy
- Define-Posology, Dose, Dosage, Drug Effect, Drug Action.