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3713

D.Pharma. (Part-II)

Diploma In Pharmacy Part- II (New Scheme) (Main) Examination
January- 2024

BIOCHEMISTRY & CLINICAL PATHOLOGY

Paper- III

Time: Three Hours

Maximum Marks: 80

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1. Do not write anything on question paper except roll number, otherwise it shall be deemed as an act of including in unfair-means and action shall be taken as per rules.
 2. Question paper contain three parts (I-III). Each part is compulsory. Read instructions carefully for each part before starting.
 3. Attempt parts of each question altogether. Write question number of each part along with it.
- (This paper contains TWO pages)

Part I

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Attempt ANY SIX out of following questions long questions.

06 x 05 = 30

1. Classify different type of polysaccharide with their chemical nature and uses.
2. Define the term amino acid. Describe the nutritional requirement with examples.
3. Define the term Mutarotation. Describe different type of monosaccharide with examples.
4. What are enzymes? Write in detail about factor effecting the enzymes activity.
5. How β - oxidation generate maximum energy? Draw the pathway of β - oxidation.
6. How dehydration is caused in body? What are the curative therapy applicable for dehydration?
7. Describe the overall pathology of blood.

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Part II

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Attempt ALL of the following questions in short answer.

8. Attempt any SIX questions.

06 x 03 = 18

- a) Define the term rancidity. How it affect the quality of lipid?
- b) Write the steps of EMP pathway.
- c) Write in short about LFT and RFT.
- d) Define the term holoenzyme. Write the therapeutic importance of enzyme.
- e) Classify water soluble vitamin with their deficiency disorder.
- f) What is the difference between simple protein and conjugated protein?
- g) What are the qualitative test followed for lipid?

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9. Answer ALL questions.

04 x 03 = 12

- a) Give the information about disaccharide with their therapeutic uses.
- b) Which type of disorder are arises due to lipid metabolism?
- c) How lipid soluble vitamin help to body?
- d) Write a note on purine and pyrimidine bases.

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Part III

Attempt all the following questions.

10. Fill in the blanks OR Answer in one word OR one sentence: 07 x 01 = 07

- a) Define the term gluconeogenesis.
- b) How many ATP produced during β - oxidation?
- c) Give the name of Vitamin - D₃.
- d) What is the primary test for carbohydrate?
- e) Lipoprotein are
- f) Define the term malnutrition.
- g) Total ATP produced by TCA cycle.

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11. Fill in the blanks OR Answer in one word OR one sentence: 07 x 01 = 07

- a) Dehydration is the condition
- b) Prostaglandin are
- c) Define the term enzyme inhibitor.
- d) Essential amino acids are those
- e) Glycogen is stored in
- f) Megaloblastic anemia caused by
- g) TCA cycle is proceed in

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12. Fill in the blanks OR Answer in one word OR one sentence: 06 x 1 = 06

- a) Define the term glycogenolysis.
- b) SGOT and SGPT are associated to test.
- c) How much percentage contained by intra cellular electrolyte?
- d) Increased lymphocytes indicate
- e) Define the term lipolysis.
- f) Maximum concentration of Vitamin E is found in

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