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ODISHA STATE BOARD OF PHARMACY

02.02.2024

D. Pharm Part - II

E. R. 2020

2023(I) Examination

DO NOT WRITE ANYTHING ON YOUR OUESTION PAPER EXCEPT YOUR ROLL NO. OUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MAL-PRACTICE ANSWER THE QUESTIONS SERIALLY AND CONTINUOUSLY

Subject: BIO-CHEMISTRY & CLINICAL PATHOLOGY (Theory)

Full Mark -80 Time -3 Hrs.

1. Answer any six questions

(6x5)

- Describe different Liver function tests performed routinely and their clinical a) significance to access the functions of Liver?
- Define ketogenesis? Write the reaction involved in the synthesis of ketone b) bodies through it?
- What are the abnormal constituents of urine and mention their clinical significances? c)
- What do you mean by Glycolysis & write the steps involved in it? d)
- e) What are vitamins & classify it with examples? Briefly describe the sources, chemical nature, biological functions and deficiency diseases of Vitamin-A & Vitgamin-C?
- f) Write a note on Beta oxidation of saturated fatty acid?
- What do you mean by Urea cycle & explain the steps involved in the synthesis of Urea? g)

2. Answer any ten questions:

(10x3)

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- Describe the detail procedure for identification of unknown carbohydrate sample? a)
- What are lipoproteins and attach a note on composition & functions of different types b) of lipoprotein?
- c) Write the application of Biotechnology in pharmaceutical sciences?
- d) Explain the various components present in ETC?
- What do you mean by lipid profile test and mention its clinical significances in lipid e) related diseases?
- f) Explain the role of iron and iodine and micronutrients in cell?
- Write the diseases caused by the phosphorous deficiency? g)
- Classify enzymes according to IUB & MB? h)
- Describe the salient features of structure of DNA with its functions? i)
- Write the role of calcium and potassium in cell? j)
- k) Describe the detail pathway of ornithine cycle and describe in brief about phenylketonuria?

3. Define the following terms (within twenty words):

(1x20)

- i) Mutarotation
- ii)Transamination
- iii) Zwitter ion
- iv) Decarboxylation

- v) Polenske numbr
- vi) Gluconeogenesis
- vii) Vitamin-H
- viii) Coenzyme

- ix) Wilson's disease
- x) ORT
- xi) Anisocytosis
- xii) Marasmus

- xiii) Ochronosis
- xiv) EST
- xv) Biological value
- xvi) Holoenzyme

- xvii) HMP shunt
- xix) Galactosaemia
- xviii) SGOT

xx) Idiopathic Thrombocytopenic Purpura.
