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(LP 4254) AUGUST 2019 Sub Code: 4254

## B.PHARM. DEGREE EXAMINATION FIRST YEAR PAPER IV – BIOCHEMISTRY

Q.P. Code: 564254

Time: Three hours Maximum: 100 Marks

I. Elaborate on:  $(2 \times 20 = 40)$ 

1. a) Define proteins and classify it based on functions with examples.

b) Write a note on the different levels of organization of protein structure.

a) Write in detail about the co-enzyme form, biochemical function, deficiency diseases of Pyridoxine.

b) Discuss the metabolism of Iron.

II. Write notes on:  $(8 \times 5 = 40)$ 

- HMP shunt and its importance.
- Fatty acid and its importance.
- Structure and functions of messenger RNA (mRNA).
- Note on factors affecting enzyme activity with suitable example.
- Bile salts.
- Folic aci
- 7. Renal function tests.
- Biochemical role of haemoglobin.

## III. Short answers on:

 $(10 \times 2 = 20)$ 

- Write the functions of 2, 3-Bis-phosphoglycerate.
- 2. Biochemical functions of Vitamin C.
- Write the structure and functions of Cholesterol.
- 4. What is Heparin and give its functions?
- Write the functions of Glutathione.
- Lesch-Nyhan syndrome.
- 7. What are the functions of Vitamin K?
- 8. Define Nitrogen balance and its significance.
- Hyperthyroidism.
- Leukotrienes.

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