

FIRST YEAR D. PHARMACY EXAMINATION, APRIL 2018  
EDUCATION REGULATIONS ER 1991  
BIOCHEMISTRY & CLINICAL PATHOLOGY (Question Paper Code: 218416)  
(Subject Code: 211006)

Time: Three hours

Maximum marks: 80

- Note: (1) Answer any **EIGHT** questions  
(2) All questions carry equal marks  
(3) Draw diagrams wherever necessary

1. Classify the types of anaemia and write the causes of iron deficiency anaemia (10)
2. Write the normal reference values for the following (2x5)  
(a) Fasting plasma glucose (b) Blood urea (c) Serum electrolyte  
(d) Serum phosphorous (e) Serum uric acid
3. Write short notes on (a) Glactosemia (b) Isoelectric pH (5+5)
4. How will you classify amino acids? Write a note on peptide bond (7+3)
5. Explain the pathway of gluconeogenesis. Write a note on its significance. (7+3)
6. Write short notes on  
(a) Diagnostic uses of enzymes (b) Glycated haemoglobin (5+5)
7. Enumerate the Liver function tests. Write a note on Vandenerg reaction (5+5)
8. Explain the process of digestion and absorption of lipids. Write a note  
chylomicrons. (7+3)
9. Write about creatinine clearance test and its normal reference value. (10)
10. Write short answers (2<sup>1/2</sup>x4)  
(a) Scurvy  
(c) Heat coagulation test  
(b) Rothera's test  
(d) Biochemical role of vitamin K