

Rajiv Gandhi University of Health Sciences

M.B.B.S. PHASE - I Degree Examination - August 2007

Time : 3 Hrs.

[Max. Marks : 100]

BIOCHEMISTRY (Revised Scheme)

QP Code: 1055

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary.

LONG ESSAY

2 X 9 = 18 Marks

- Describe in detail the de novo synthesis of fatty acids. Add a note on short and long term mechanisms that regulate lipogenesis.
- Describe in detail the catabolism of Phenylalanine. Enumerate the inborn errors associated with the pathway

SHORT ESSAY

10 X 5 = 50 Marks

- Lysosomes.
- Secondary structure of proteins.
- Coenzymes.
- Hyperhomocysteinemia
- Regulation of glycolysis.
- Oral glucose tolerance test.
- How are iron absorbed?
- What are the types of fatty acid oxidation ?
- Describe the classification and biological actions of prostaglandins.
- Write about aminoaciduria.

SHORT ANSWERS

16 X 2 = 32 Marks

- What is a vector? What are the commonly used vectors ?
- Name two radioactive isotopes used for diagnosis.
- What is iso electric pH? What is the application of Isoelectric ph ?
- What is biochemical defect in Hemoglobin S? How is its Function altered?
- What is nucleotide excision repair?
- What are the enzymes defective in orotic aciduria ?
- Define Anion gap. What happens to anion gap in acidosis resulting from renal failure ?
- Function of fluoride in dental health
- Name two causes of unconjugated hyperbilirubinemia.
- Name the amino acid used for the synthesis of creatinine.
- What are components of ceramide ? Name a phospholipid which contains ceramide.
- What is the normal level of serum cholesterol? Name one Bile acid formed from cholesterol?
- Name the isoenzymes of creatine phosphokinase
- Name two agents used to precipitate proteins ?
- Name two hydroxy amino acids.
- What is restriction fragment length polymorphism ? Give One clinical application of same.
