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Q.P CODE :105

SRI DEVARAJ URS UNIVERSITY

(Formerly known as Sri Devaraj Urs Academy of Higher Education and Research)

M.B.B.S. PHASE - I Degree Examination - July, 2009

Time : 3 Hrs.

(Max. Marks : 100)

BIOCHEMISTRY

Use separate answer books for Section -A and Section -B.

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary.

SECTION - A (Max. Marks: 50)

LONG ESSAY

1 X 10 = 10 Marks

1. What are lipoproteins? Classify them and describe their general structure and the functions of each type in the body.

SHORT ESSAY

5 X 5 = 25 Marks

2. Clinical importance of isoenzymes
3. Chemiosmotic hypothesis of oxidative phosphorylation
4. Lactose intolerance
5. Transamination reactions
6. Role of cytochrome P450 in metabolism of xenobiotics

SHORT ANSWERS

5 X 3 = 15 Marks

7. Tumour markers
8. Anti-oxidants
9. Structure of cell membranes
10. Importance of the hexose monophosphate shunt
11. Denaturation of proteins

SECTION - B (Max. Marks: 50)

(Use separate answer book)

LONG ESSAY

1 X 10 = 10 Marks

1. Describe the functions, sources, daily requirement for a normal adult, and regulation of calcium levels in blood.

SHORT ESSAY

5 X 5 = 25 Marks

2. Gout
3. Functions of Vitamin K
4. Post-transcriptional modification of RNA
5. Metabolic acidosis
6. Hyperkalemia

SHORT ANSWERS

5 X 3 = 15 Marks

7. Creatinine clearance test
8. Importance of intake of dietary fibre
9. Kwashiorkor
10. Folate trap
11. Unconjugated hyperbilirubinemia

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Q.P CODE :105 – SDUU, Section-A (Max. Marks : 50)

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LONG ESSAY

1 X 10 = 10 Marks

1. Classification of enzymes with one example each. What are the factors which influences the enzyme action?

SHORT ESSAY

5 X 5 = 25 Marks

2. Draw the components of electron transport chain and its inhibitors
3. Denovo synthesis of fatty acids
4. Galactosemia
5. Lipid peroxidation
6. Urea cycle

SHORT ANSWERS

5 X 3 = 15 Marks

7. Mucopolysaccharides
8. Alkaptonuria
9. Active transport
10. Apoptosis
11. Lipotropic factors

Q.P CODE :106 – SDUU, Section-B (Max. Marks : 50)

(Use separate answer book)

LONG ESSAY

1 X 10 = 10 Marks

1. Write in detail about the absorption, transport, daily requirement and deficiency manifestations of iron.

SHORT ESSAY

5 X 5 = 25 Marks

2. Genetic code
3. Specific Dynamic Action
4. Bilirubin formation and excretion
5. Degradation of pyrimidine
6. Chemistry, sources, biochemical functions and deficiency manifestations of thiamine

SHORT ANSWERS

5 X 3 = 15 Marks

7. Inhibitors of protein biosynthesis
8. Metabolic acidosis
9. Clearance tests
10. Lesch Nyhan syndrome
11. Orotic aciduria

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