

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.***Q.P CODE : 105 – SDUU, SECTION – A (Max. Marks: 50)****LONG ESSAY****1 X 10 = 10 Marks**

1. Write in detail about the pathway of cholesterol synthesis. Add a note on the products formed from cholesterol.

SHORT ESSAY**5 X 5 = 25 Marks**

2. Define oxidative phosphorylation and explain chemiosmotic theory
3. Methionine metabolism
4. Glycogenolysis
5. Enzyme inhibition
6. Tumour markers

SHORT ANSWERS**5 X 3 = 15 Marks**

7. Fluid mosaic model of cell membrane
8. Detoxification by conjugation
9. Secondary structure of proteins
10. Glucose transporters
11. Polyamines

Q.P CODE : 106 - SDUU, SECTION - B (Max. Marks: 50)**(Use separate answer book)****LONG ESSAY****1 X 10 = 10 Marks**

1. Discuss in detail about the recombinant DNA technology and its clinical applications.

SHORT ESSAY**5 X 5 = 25 Marks**

2. Renal regulation of blood PH
3. Functions and deficiency manifestations of vitamin C
4. Calcium homeostasis
5. Catabolism of purines
6. Porphyrias

SHORT ANSWERS**5 X 3 = 15 Marks**

7. Glomerular function tests
8. Nitrogen balance
9. Anion Gap
10. Niacin
11. Gout



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SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

M.B.B.S. PHASE – I Degree Examination **January-2011**

Time : 3 Hrs.

(Max. Marks : 100)

BIOCHEMISTRY

Q.P CODE :105 – SDUU

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

LONG ESSAY

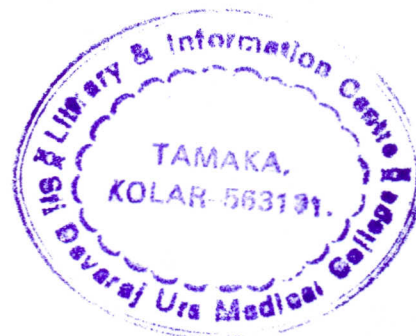
2 X 10 = 20 Marks

1. Describe in detail phenyl alanine metabolism
2. Write in detail about the sources, requirement and metabolic functions of vitamin B₁₂.

SHORT ESSAY

10 X 5 = 50 Marks

3. Active and passive transport
4. Types of enzyme inhibition
5. Gluconeogenesis
6. Thyroid hormones
7. De-novo synthesis of fatty acid
8. Clearance test and their importance
9. Heme degradation
10. Deficiency of pyridoxine
11. Enzymes which assess liver function
12. PCR



SHORT ANSWERS

10 X 3 = 30 Marks

13. Anomers and epimers
14. Nutritional classification of proteins
15. Any two conjugation reactions of detoxification
16. Mention two phospholipids and their importance
17. Draw urea cycle
18. Hypocalcemia
19. Wald's visual cycle
20. Structure of DNA
21. Lesch – nyhan syndrome
22. Significance of specific dynamic action

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