

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

M.B.B.S. PHASE – I Degree Examination – July-2012

Time : 3 Hrs.

[Max. Marks : 100]

BIOCHEMISTRY

Q.P Code :105 - SDUU

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

2 X 10 = 20 Marks

1. Classify enzymes. Discuss in detail about the different types of enzyme inhibitions, with suitable examples.
2. What is the active form of vitD? How is it synthesized in the human body?
How is calcium homeostasis maintained?

SHORT ESSAY

10 X 5 = 50 Marks

3. Homopolysaccharides and their functions.
4. Marker enzymes of sub cellular organelles.
5. Diagrammatically represent the urea cycle, indicating the sites of inherited disorders, and the relevant enzymatic defect.
6. Cytochrome P₄₅₀.
7. Biological significance of prostaglandins.
8. Steps of haem synthesis and its regulation.
9. Applications of polymerase chain reaction.
10. Salvage pathway of purines.
11. Biological significance and deficiency manifestations of Niacin.
12. Quality control.

SHORT ANSWERS

10 X 3 = 30 Marks

13. Uncouplers of oxidative phosphorylation.
14. Phenyl ketonuria.
15. 2,3 BPG shunt.
16. Functions of cortisol.
17. Active transport.
18. Functions of plasma proteins.
19. Role of Dietary fibre in human Nutrition.
20. Ig M.
21. Acute Intermittent porphyria.
22. Selenium.