SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

B.Sc. Allied Health Sciences Second Year (Semester-III)

Examination March - 2012

Time : 2.30 Hrs. **Max. Marks : 80]**

SUBJECT : Biochemistry - III

Q.P Code : AHS-105

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

LONG ESSAY **2 X 10 = 20 Marks**

1. What is B-oxidation? Write the steps of B-oxidation of palmitic acid and its energetics.
2. Write the source, requirement, functions and deficiency disease of Vit-C

SHORT ESSAY (Answer any Six) **6 X 5 = 30 Marks**

3. Name the ketone bodies. Add a note on its synthesis.
4. Classify enzymes with suitable example
5. Hemoglobin structure. What are abnormal hemoglobins
6. Fructose metabolism
7. Hypervitaminosis
8. Gluconeogenesis
9. Sickle cell anemia
10. Anaplerotic reaction

SHORT ANSWERS (Answer any Ten) **10 X 3 = 30 Marks**

11. What is KM? Write its significance
12. Osazones
13. Significance of HMP shunt pathway
14. Osteomalesia
15. Coenzymes of (i) riboflavin (ii) niacin
16. Normal serum level of (i) Albumin (ii) Cholesterol
17. Provitamins
18. GTT
19. Abnormal constituents of Urine
20. Bile pigments
21. Osmolarity
22. Galactosemia

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Examination March - 2012

Time : 2.30 Hrs. **Max. Marks : 80]**

SUBJECT : Microbiology-III

Q.P Code : AHS-109

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

LONG ESSAY **2 X 10 = 20 Marks**

1. Discuss briefly morphology, pathogenesis and laboratory diagnosis of clostridium tetani
2. Discuss in detail the role of staphylococcus aureus in causing nosocomial infection.

SHORT ESSAY (Answer any Six) **6 X 5 = 30 Marks**

3. Gram's staining
4. Classification of streptococci
5. Wool sotter's disease
6. RNTCP
7. Discuss the modifications of ziehl-neelsen staining
8. Elek's gel precipitation test
9. Coagulase test
10. Kirby baeur method

SHORT ANSWERS (Answer any Ten) **10 X 3 = 30 Marks**

11. Camp test
12. BCG
13. Morphology of gonococci
14. Slit skin smear examination
15. Give three examples of mycobacteria which are rapid growers
16. Cultivation of corynebacterium diphtheriae
17. Demonstration of capsule of pneumococci
18. Cultivation of clostridium
19. Mantoux test
20. How to differentiate between mycobacterium tuberculosis and saprophytic mycobacteria by staining.
21. Bacillus cereus
22. Blle solubility test

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Examination March - 2012

Time : 2.30 Hrs. **Max. Marks : 80]**

SUBJECT : Pathology

Q.P Code : AHS- 107

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

LONG ESSAY **2 X 10 = 20 Marks**

1. Define and classify anemia. Discuss the causes and laboratory investigations of iron deficiency anemia.
2. Define thrombus. Discuss the pathogenesis of thrombus formation. Add a note on fate of thrombus.

SHORT ESSAY (Answer any Six) **6 X 5 = 30 Marks**

3. Anticoagulants
4. Platelet aggregation studies
5. Discuss principle procedure and interpretation of osmolic fragility test
6. Laboratory investigations of megaloblastic anemia
7. Discuss APTT and PT
8. Discuss various types of emboli
9. G6 phosphate dehydrogenase disease
10. Role of platelets in normal hemostasis

SHORT ANSWERS (Answer any Ten) **10 X 3 = 30 Marks**

11. Packed cell volume
12. Differential leucocyte count
13. Erythrocyte sedimentation rate
14. D-Dimer assay
15. List special stains used in histopathology
16. Reticulocyte
17. Fetal hemoglobin
18. Thrombin time
19. Coagulase test
20. Calculation of RBC indices
21. WBC count
22. Clotting time

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