2012-13

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

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

March – 2014 Examination

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

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. Describe Normal hematopoesis. Mention the indications for bone marrow aspiration.
2. How to prepare a peripheral smear. List the stains used to stain a peripheral smear. Procedure of staining using leishman's stain.

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

3. Reticulocyte count.
4. Sickling test.
5. Calculation of red cell indices and their normal values.
6. Investigations in megaloblastic anemia.
7. Stem cells.
8. Abnormal hemoglobin pigments.
9. Activated partial thromboplastin time.
10. Absolute eosinophil count.

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

11. Bleeding time.
12. Mention the tests for autoimmune hemolytic anemia.
13. Three causes of eosinophilia.
14. Stages of ESR.
15. Mention the colorimetric methods to estimate Hemoglobin.
16. Mention the causes of reduced WBC count.
17. Mention two causes of impaired clot retraction test.
18. LE Cell.
19. List three indications of bone marrow aspiration.
20. Name three poikilocytes.
21. MCHC
22. Plasma haptoglobin.

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BIOCHEMISTRY

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. Give an account of sources, daily requirements, biochemical functions and deficiency diseases of Thiamine.
2. Out line the steps of TCA cycle, energetics and mention its amphibolic role.

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

3. Classification of enzymes with one suitable example.
4. Ketogenesis.
5. Plasma proteins and their functions.
6. Osmolarity.
7. Rhodopsin cycle.
8. Glycogenesis.
9. Role of Carnitine in β-oxidation
10. GTT.

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

11. Galactosemia.
12. Define km. What is its Significance.
13. Abnormal hemoglobin.
14. Atherosclerosis.
15. Gluconeogenesis.
16. Spccificity of enzymes.
17. Diabetes mellitus.
18. Scuvry.
19. Structure of immuno globulins
20. Glycated Hemoglobin.
21. Significance of HMP shunt pathway.
22. Functions of cholesterol.

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MICROBIOLOGY

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 in detail morphology and laboratory diagnosis of Mycobacterium tuberculosis.
2. List the organisms causing pyogenic meningitis and describe the laboratory diagnosis of meningococcal meningitis.

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

3. Draw a neat labelled diagram of Ziehl-neelsen staining picture of mycobacterium leprae. What is lepromin test.
4. Gram's staining
5. How do you detect MRSA in laboratory
6. Diseases caused by streptococcus pneumoniae
7. Media used to grow Gonococci
8. Eleks gel precipitation test
9. Laboratory diagnosis of tetanus
10. Principal and interpretation of Coagulase test

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

11. CAMP test
12. Nagler's reaction
13. Bile solubility test
14. Enrichment media
15. M'Fadyean's reaction
16. Coagulase test
17. Name three special stains used to stain Corynebacterium Diphtheria
18. Prophylaxis in Diphteria
19. Hanging drop preparation
20. Triple sugar iron agar
21. Name anaerobic culture media
22. ASLO test

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