

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

B.Sc. Allied Health Sciences Third Year (Semester-V)

September/October -2018 Examination

B.Sc. Medical Laboratory Technology (MLT)

Time : 2.30 Hrs.

[Max. Marks : 80]

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. Enumerate the liver function tests. Describe in detail the tests to assess synthetic and excretory functions the liver.
2. Write the sources, RDA and functions of calcium. Describe the disorders associated with calcium metabolism.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Creatinine clearance test.
4. Analysis of gall stones.
5. Metabolism of Bilirubin.
6. Enumerate the gastric function tests. Describe any two in detail.
7. Write sources and RDA of iron. Describe the disorders associated with iron metabolism.
8. Mention any four inborn errors of metabolism of carbohydrate. Describe any two.
9. What are trace elements? Write the biological importance and disorders associated with copper metabolism.
10. Describe the synthesis of Heme. Mention the regulatory step.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Factors affecting absorption of iron.
12. Composition of renal stones.
13. Any three biological importance of phosphorus.
14. Composition of gastric juice and its importance.
15. Mention the biochemical abnormality in
 - a) Maple syrup urine disease
 - b) Albinism
 - c) Phenyl ketonuria
16. Flourosis.
17. Biological importance of Zinc.
18. List the renal tubular function tests.
19. Write briefly the biochemical analysis of ascetic fluid.
20. Biological importance of copper.
21. What is uric acid? Write its biological reference interval in serum. Mention any two disorders associated with hyperuricemia.
22. List the thyroid function tests and mention the findings in hyperthyroidism.

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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. Enlist tissue nematodes. Describe morphology, life cycle and lab diagnosis of filariasis.
2. Describe the life cycle, pathogenecity and laboratory diagnosis of plasmodium falciparum.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Enterobius vermicularis.
4. Strongyloides stercoralis.
5. Fasciola hepatica.
6. Taenia solium.
7. Visceral leishmaniasis.
8. Complications of entamoeba hystolitica.
9. Opportunistic protozoa.
10. H. Nana

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Aldehyde test.
12. Lab diagnosis of Tokoplasma Gondii
13. Larva migrans.
14. Draw a neat labeled diagram of a non bile stained egg.
15. List protozoan parasites causing diarrhoea.
16. Draw a neat labeled diagram of giardia lamblia.
17. Name three trematodes.
18. Stool concentration techniques.
19. Name three complications of Assariasis.
20. Hydatid cyst.
21. Name haemoflagellates.
22. Geimsa staining method of thin smear.

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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 the normal anatomy, histology of urinary tract. Add a note on microscopic examination of urine.
2. Describe in detail procedure of pap smear, principle and steps of pap staining of cervical smear.

SHORT ESSAY (Answer any Six)

6 X 5 = 30 Marks

3. Normal anatomy and histology of respiratory tract.
4. Role of exfoliative cytology in the diagnosis of cancer.
5. Normal cell structure.
6. Histology of respiratory tract.
7. Screening programme for cervical cancer.
8. Collection and preparation of ascetic fluid for cytological examination.
9. Normal histology of ovary.
10. CSF cytology in inflammatory conditions.

SHORT ANSWERS (Answer any Ten)

10 X 3 = 30 Marks

11. Cytology of ovarian cancer.
12. Exfoliative cytology.
13. Cytological indices in pap smear.
14. Aceto-orcin stain.
15. Bethesda system of cervical cytology.
16. Enumerate infections diagnosed in pap smear.
17. Radiation changes in cells.
18. Shorr's stain.
19. Mesothelial cells in effusions.
20. Urine sediment.
21. Pap smear findings in cervical cancer.
22. Cell block

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