

**SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH**

**(A DEEMED TO BE UNIVERSITY)**

**B.Sc. Allied Health Sciences First Year (Semester-II)**

**August - 2015 Examination**

**Time : 2 Hrs.**

**[Max. Marks : 50]**

**ANATOMY**

**Q.P Code : AHS-101**

*Your answers should be specific to the questions asked.*

*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Classify joints. Describe a synovial joint.
2. Describe Mammary gland under a) Situation and relations b) Gross anatomy c) Blood supply d) Lymphatic drainage e) Applied importance.

**SHORT ESSAY**

**3 X 5 = 15 Marks**

3. Histology of bone.
4. Spermatogenesis.
5. Cerebellum.

**SHORT ANSWERS**

**5 X 3 = 15 Marks**

6. Name the hormones of pituitary gland.
7. Name the bones of upper limb.
8. Name three types of muscles.
9. Name the parts of male reproductive system.
10. Name the layers of skin.

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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. What is tissue processing? Discuss the various stages in tissue processing.
2. Classify fixatives. Discuss in detail about formalin fixative.

**SHORT ESSAY**

**3 X 5 = 15 Marks**

3. Decalcification.
4. Rotary microtome.
5. Color coding of biomedical waste management.

**SHORT ANSWERS**

**5 X 3 = 15 Marks**

6. Reception of specimens.
7. What is blueing? Give two examples of blueing agents.
8. List two causes for alternate thick and thin sections and their remedies.
9. What is the role of section adhesives. Give two examples.
10. What is honing?

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**PHYSIOLOGY**

**Q.P Code : AHS-103**

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*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Draw a neat labelled diagram of the neuro muscular junction and explain the transmission across the same. Add note on the neuromuscular blocking agents.
2. Name the hormones that regulate serum calcium. Functions of parathyroid hormone. Add a note on hypocalcemic tetany.

**SHORT ESSAY**

**3 X 5 = 15 Marks**

3. Spermatogenesis and factors influencing it.
4. Name the different components of visual pathway and mention what happens if there is leison of right optic nerve.
5. Functions of cerebellum.

**SHORT ANSWERS**

**5 X 3 = 15 Marks**

6. Function of testosterone.
7. Three functions of hypothalamus.
8. Diabetes mellitus.
9. Pregnancy diagnostic tests.
10. Function of oxytoein.

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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. Define and classify hypersensitivity reactions. Describe type I hypersensitivity reactions.
2. Enumerate the types of immune responses. Describe the structure of an immunoglobulin molecule. Add a note on the different classes of antibodies.

**SHORT ESSAY**

**3 X 5 = 15 Marks**

3. Principle and applications of ELISA.
4. WIDAL test.
5. Acquired immunity.

**SHORT ANSWERS**

**5 X 3 = 15 Marks**

6. Name three line vaccines?
7. Name three molecular methods for diagnosing infectious diseases.
8. Haptens.
9. Principle of immunofluorescence.
10. C-reactive protein.

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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. Describe various techniques used for the treatment and disposal of biomedical waste.
2. What is automation? Mention types of analysers and describe in detail any two of them.

**SHORT ESSAY**

**3 X 5 = 15 Marks**

3. What are the different grades of reagents used in biochemistry laboratory?
4. Specificity and sensitivity.
5. Different types of errors seen in laboratory.

**SHORT ANSWERS**

**5 X 3 = 15 Marks**

6. Write the normal value,  
i. Alkaline phosphatase ii. LDH iii. Blood urea.
7. Accuracy and precision.
8. Renal glycosuria.
9. What is adsorption? Give one example.
10. Name west guard rules.

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