

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

**(A DEEMED TO BE UNIVERSITY)**

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

**July – 2016 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. Describe the prostate under the following headings.
  - a. Name the parts
  - b. Coverings
  - c. Lobes
  - d. Add a note on its applied anatomy
2. Describe the thyroid gland under the following headings.
  - a. Name the parts
  - b. Coverings
  - c. Relations
  - d. Blood supply

**SHORT ESSAY**

**3 X 5 = 15 Marks**

3. Floor of the fourth ventricle.
4. Histology of bone.
5. Superior oblique muscle of eyeball.

**SHORT ANSWERS**

**5 X 3 = 15 Marks**

6. Mention different types of epiphyses and their examples.
7. Draw a neat labelled diagram of neuron.
8. Spermiogenesis.
9. Draw and label the microscopic picture of ovary.
10. Mention the microscopic differences between skeletal and cardiac muscles.

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**PHYSIOLOGY**

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

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

*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY**

**2 X 10 = 20 Marks**

1. Write in detail about uterine and ovarian changes during menstrual cycle. Add a note on tests for ovulation.
2. Draw a neat labelled diagram of the cross section of spinal cord with the representation of ascending tract and list the function of each tract.

**SHORT ESSAY**

**3 X 5 = 15 Marks**

3. Describe in detail, the sliding filament theory of skeletal muscle contraction. Add a note on Rigor mortis.
4. What is the normal  $Ca^{++}$  ion in the blood. Name the hormones which maintain the same. Add note on rickets.
5. Describe the errors of refraction with necessary diagrams. Add note on how it is corrected.

**SHORT ANSWERS**

**5 X 3 = 15 Marks**

6. List three functions of cerebellum.
7. List three functions of corticosteroids.
8. List three function of cerebro spinal fluid.
9. Write in brief about Acromegaly.
10. Tests for hearing.

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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. What is Waste? Describe the segregation and disposal of biomedical waste from the laboratory.
2. What is distillation? Explain the different grades of water used in the Lab.

**SHORT ESSAY**

**3 X 5 = 15 Marks**

3. Surfactant.
4. Osmolality.
5. What is quality control? Explain in detail about EQAS and IQAS.

**SHORT ANSWERS**

**5 X 3 = 15 Marks**

6. Biological reference ranges of blood glucose levels.
7. OSMOSIS
8. Preparation of Normal Saline.
9. Coefficient of Variance.
10. Glycolytic inhibitor for blood glucose Preservation.

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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.
2. Enumerate the types of antigen-antibody reactions. Discuss the principle, types and application of Elisa

**SHORT ESSAY**

**3 X 5 = 15 Marks**

3. Structure and function of Ig A.
4. Monoclonal antibodies.
5. Standard Precautions.

**SHORT ANSWERS**

**5 X 3 = 15 Marks**

6. Name viral vaccines.
7. Herd Immunity.
8. Heterophile antigens.
9. Interleukins.
10. Acute Phase proteins.

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**[Max. Marks : 50]**

**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. Enumerate the different types of microtomes. Discuss in detail the problems related to section cutting.
2. Discuss the principles and various techniques of decalcification of tissues.

**SHORT ESSAY**

**3 X 5 = 15 Marks**

3. Types of bio-medical wastes and their disposal.
4. Types of mounting media.
5. Tissue fixatives.

**SHORT ANSWERS**

**5 X 3 = 15 Marks**

6. Slide filing.
7. Clearance angle of microtome knife.
8. Paraplast.
9. Advantages of chromate fixatives.
10. Care of the microscope.

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

**July – 2016 Examination**

**Time : 2 Hrs.**

**[Max. Marks: 60]**

**ENVIRONMENTAL SCIENCE**

**Q.P. Code: AHS-129**

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

*Draw neat labelled diagrams wherever necessary.*

**LONG ESSAY (Answer any two)**

**2 X 10 = 20 Marks**

1. What is global warming? Enumerate the causes and its effects. What measures can be taken to prevent global warming?
2. What is soil erosion? What are the reasons and effects of soil erosion? What measures can be taken to prevent soil erosion?
3. What is air pollution? What are the causes for air pollution? Describe the measures taken to reduce air pollution.

**SHORT ESSAY**

**5 X 5 = 25 Marks**

4. Ecosystem.
5. Wind energy.
6. Effects of water pollution. ✓
7. Biodiversity.
8. Nuclear hazards. ✓

**SHORT ANSWERS**

**3 X 5 = 15 Marks**

9. Minamata disease. ✓
10. Endangered species in India. ✓
11. Food chain. ✓
12. Solar energy. ✓
13. Floods. ✓

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