

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

**(A DEEMED TO BE UNIVERSITY)**

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

**January – 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. Classify epithelium. Describe stratified squamous epithelium.
2. Name the organs related to urinary system. Describe urinary bladder.

**SHORT ESSAY**

**3 X 5 = 15 Marks**

3. Relations and blood supply of pancreas.
4. Histology of lymph node.
5. Blood supply of heart.

**SHORT ANSWERS**

**5 X 3 = 15 Marks**

6. Parts of stomach.
7. Name the cartilages of larynx.
8. Blood supply to kidneys.
9. Name the salivary glands.
10. Mention the relations on anterior surface of right kidney.

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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. State Landsteiner's law. What are the uses of blood groups? Discuss the hazards of mismatched blood transfusion.
2. Name various plasma proteins of importance. Give the normal values of important plasma proteins. Discuss in detail about the functions of plasma proteins.

**SHORT ESSAY**

**3 X 5 = 15 Marks**

3. Write the composition and functions of saliva? Briefly explain its regulation.
4. Explain the baroreceptor mechanism of blood pressure regulation.
5. Define and give the normal values of various static lung volumes and capacities.

**SHORT ANSWERS**

**5 X 3 = 15 Marks**

6. Micturition reflex.
7. Functions of bile juice.
8. Uses of electrocardiogram (ECG).
9. Three non-respiratory functions of lung.
10. Labeled diagram of Juxta - Glomerular apparatus.

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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 are indicators? Explain the mechanism of action of indicators? List any four commonly used indicators with pH range.
2. What is a Buffer? Give three examples. Explain the preparation of a Buffer using pH meter.

**SHORT ESSAY**

**3 X 5 = 15 Marks**

3. Classification and application of salts.
4. What is molarity? How do you prepare 100ml of 1M Na<sub>2</sub>CO<sub>3</sub> (M.w. 106).
5. Briefly discuss the precautions to be taken when working in Biochemistry laboratory.

**SHORT ANSWERS**

**5 X 3 = 15 Marks**

6. What is a standard solution? Write its uses.
7. What are the fundamental particles of an atom.
8. What is an Ionic bond? Give example.
9. S.I. units of Time, Mass, Length.
10. Define Quantum Numbers.

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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. List the normal constituents of blood. Describe the structure of each with suitable diagrams.
2. Describe collection, preservation and physical examination of urine.

**SHORT ESSAY**

**3 X 5 = 15 Marks**

3. Cross matching.
4. ESR.
5. CSF analysis.

**SHORT ANSWERS**

**5 X 3 = 15 Marks**

6. Rothera test.
7. Needle stick injury.
8. Specimen collection for sputum examination.
9. Bleeding time (BT).
10. Name three instruments used in haematology lab.

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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 hospital biomedical wastes. Discuss about segregation and disposal of hospital biomedical wastes.
2. Define and classify disinfectants. Describe formaldehyde fumigation. Write a note on testing of disinfectants.

**SHORT ESSAY**

**3 X 5 = 15 Marks**

3. Louis Pasteur.
4. Anaerobic culture methods.
5. Antibiotic sensitivity testing methods.

**SHORT ANSWERS**

**5 X 3 = 15 Marks**

6. Mention four transport media and their uses.
7. Needle stick injury.
8. Draw a neat labeled diagram of bacterial spore.
9. Difference between exotoxins and endotoxins.
10. Name four staining methods and their uses.

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