2013-14

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

B.Sc. Allied Health Sciences First Year (Semester-I)
February 2014 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 bones. Discuss histology of compact bone.
2. Name the organs of excretory system. Discuss Kidney.

SHORT ESSAY **3 X 5 = 15 Marks**

3. Nerve supply of Tongue.
4. Differences between small and large intestine.
5. Histology of large artery.

SHORT ANSWERS **5 X 3 = 15 Marks**

6. Tributaries of portal vein.
7. Constrictions of Ureter.
8. Para nasal air sinuses.
9. Histology diagram of mixed salivary glands.
10. Thoracic duct.

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PHYSIOLOGY

Q.P Code : AHS-103

Your answers should be specific to the questions asked.
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LONG ESSAY **2 X 10 = 20 Marks**

1. Define Haemostasis. Describe the intrinsic and extrinsic pathways of coagulation.
2. Describe the composition, functions and regulations of secretion of pancreatic juice.

SHORT ESSAY **3 X 5 = 15 Marks**

3. Describe the conducting system of the heart.
4. Name the phases of deglutition. Describe the second phase.
5. Explain the structure and functions of the juxtaglomerular apparatus.

SHORT ANSWERS **5 X 3 = 15 Marks**

6. What is Albumin-Globulin ration? Mention its clinical importance.
7. State Landsteiner's laws.
8. List three differences between first and second heart sounds.
9. Define (a) Tidal volume (b) Residual volume. Give their normal values.
10. Name the respiratory chemoreceptos. Mention their location.

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BIOCHEMISTRY

Q.P Code : AHS-105

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LONG ESSAY **2 X 10 = 20 Marks**

1. Define electronic configuration. Discuss the electronic configuration principles. Add a note on quantum numbers.
2. Write the principle, types, components, maintainence and uses of centrifuges.

S[illegible]ORT ESSAY **3 X 5 = 15 Marks**

3. Mention any five indicators with their P^H range and colour change.
4. Define normality and molarity. Explain the preparation of a molar solution and normal solution.
5. International system of units.

SHORT ANSWERS **5 X 3 = 15 Marks**

6. Define buffer and mention its applications.
7. Standard solution.
8. Derive Henderson Hasselbalch equation.
9. Atomic weight and equivalent weight.
10. Post analytical errors.

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PATHOLOGY

Q.P Code : AHS-107

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LONG ESSAY **2 X 10 = 20 Marks**

1. Describe The Steps In Normal Hemostasis. Write briefly on prothrombin time (PT) and activated partial thromboplastin time (APTT). Mention two conditions where they may be prolonged.
2. Write in detail about semen analysis with suitable diagrams.

SHORT ESSAY **3 X 5 = 15 Marks**

3. Reticulocyte count.
4. Cross matching.
5. Cerebrospinal fluid (CSF) analysis.

SHORT ANSWERS **5 X 3 = 15 Marks**

6. Name three anticoagulants and one use for each of them.
7. Name three uses of the neubauer counting chamber.
8. Name three Ketone bodies.
9. Name three tests to identify protein in a urine sample.
10. Name three factors affecting measurement of erythrocyte sedimentation rate (ESR).

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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 sterilization. Add a note on autoclave.
2. Define nosocomial infections and write a note on mode of transmission, source of infection and preventive measures for nosocomail infection.

SHORT ESSAY **3 X 5 = 15 Marks**

3. Write a note on bacterial cell wall with a diagram.
4. Bacterial growth curve.
5. Gram's staining.

SHORT ANSWERS **5 X 3 = 15 Marks**

6. Carrier
7. What is a pandemic disease? Give two examples
8. Blood agar
9. Write three properties of exotoxin.
10. Name three disinfectants used in the hospital.

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