SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

B.Sc. Allied Health Sciences

First Year (Semester-II)

August-2013 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 briefly the uterus under the following headings – Position, Parts, Supports, Blood supply and two applied aspects.
2. Enumerate any five differences between the skeletal, cardiac and smooth muscle. Draw a neat labelled microscopic diagram of the same.

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

3. Write a short note on the sulci and gyri on the supero-lateral surface of the cerebral hemisphere.
4. Write a short note on the histology of suprarenal gland.
5. Draw a neat labelled diagram of the neuron.

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

6. Mention any four functions of placenta.
7. Name the cranial nerves in an order.
8. Draw a neat labelled diagram showing the parts of a young long bone.
9. Name any four muscles of posterior compartment of leg.
10. Draw a labelled diagram of Haversian system

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PHYSIOLOGY

Q.P Code: AHS - 103

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

1. List the anterior pituitary hormones. Mention the functions. Describe the various disorders associated with increased and decreased secretions of growth hormone.
2. Define neuromuscular junction. Explain excitation contraction coupling.

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

3. Functions of middle and inner ear.
4. Properties of receptors.
5. Physiological changes during pregnancy.

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

6. Functions of skin.
7. Hypothyroidism.
8. Functions of basal ganglia.
9. Factors affecting spermatogenesis.
10. Saltatory conduction and its significance.

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BIOCHEMISTRY

Q.P Code : AHS-105

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

1. What is normal P^H of Blood? How is it regulated?
2. Give an account of Sources, requirement, functions and deficiency of Vit-C?

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

3. Structure and functions of Immunoglobulins?
4. Name the buffers of fluid? What is its significance?
5. Write the principle and applications of flame photometry?

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

6. Define nitrogen balance? Give any two examples for positive and negative nitrogen balance?
7. Write any three importance of lipids?
8. Normal value of
   - (i) Na^+
   - (ii) K^+
   - (iii) Chloride
9. Write Henderson hasselbalch equation? What is its importance?
10. Name the deficiency disease of
    - i) Thiamine
    - ii) Niacin
    - iii) Pyridoxine

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PATHOLOGY

Q.P Code: AHS-107

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

1. Write on various fixatives used in histopathology and add a note on ideal fixative.
2. What is biomedical waste? How do you do decontamination of laboratory material.

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

3. Ripening of haematoxylin.
4. Clearing agents.
5. Mordents.

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

6. What is regressive staining?
7. Abrasive powders used for sharpening microtopie knives.
8. Various casts in urine sediment.
9. Counter stain for haematoxylin stain.
10. What is clearance angle?

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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. Enumerate antigen - antibody reactions. Describe the agglutination reactions with suitable examples.
2. Classify hypersensitivity. Write in detail on type one hypersensitivity.

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

3. List the differences between primary and secondary immune response.
4. Immunofluoreslence – its principle and application In diagnostic microbiology.
5. Universal safety precautions.

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

6. Enumerate the molecular methods used in diagnostic microbiology.
7. Mention four live attenuated vaccines.
8. Diagrammatic representation of immunoglobulin'G'.
9. Classify immunity.
10. Immunization schedule.

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