2014-15 Batal

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

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

February-2015 Examination

Time: 2 Hrs.

[Max. Marks: 50]

Q.P Code: AHS-101

Your answers should be specific to the questions asked. Draw neat labelled diagrams wherever necessary.

LONG ESSAY

 $2 \times 10 = 20 \text{ Marks}$

- 1. Classify epithelium with examples and function.
- 2. Discuss lung-external features, blood supply and nerve supply.

SHORT ESSAY

 $3 \times 5 = 15 \text{ Marks}$

- 3. Inferior vena cava.
- 4. Draw a diagram of structure of cell.
- 5. External features of liver.

SHORT ANSWERS

5 X 3 = 15 Marks

- Name the para nasal air sinuses.
- 7. Mention components of connective tissue.
- 8. Constructions of oesophagus.
- Draw histology diagram of lymph node.
- 10. Name the branches of arch of aorta.

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH

(A DEEMED TO BE UNIVERSITY)

B.Sc. Allied Health Sciences First Year (Semester-I) February-2015 Examination

Time: 2 Hrs.

[Max. Marks : 50]

PHYSIOLOGY

Q.P Code: AHS-103

Your answers should be specific to the questions asked. Draw neat labelled diagrams wherever necessary.

LONG ESSAY

 $2 \times 10 = 20 \text{ Marks}$

- 1. Describe stages of erythropoesis. Add a note on two factors regulating erythropoesis.
- 2. Define glomerular filtration rate and normal value of GFR. Describe various factors regulating GFR.

SHORT ESSAY

 $3 \times 5 = 15 \text{ Marks}$

- 3. Short term regulation of blood pressure.
- 4. Define hypoxia. classify various types of hypoxia. Add a note on any one of them.
- 5. Describe the mechanism of secretion of hydrochloric acid by parietal cell.

SHORT ANSWERS

 $5 \times 3 = 15 \text{ Marks}$

- 6. Define tidal volume. Mention its normal value.
- 7. Draw a neat labelled diagram of normal ECG curve and its uses.
- 8. Name three plasma proteins and two functions of the same.
- 9. Normal absolute eosinophil count and two conditions where eosinophil count increases in blood.
- Define haemostasis. Mention the normal values of bleeding and clotting time. Name one bleeding disorder.

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH
(A DEEMED TO BE UNIVERSITY)

B.Sc. Allied Health Sciences First Year (Semester-I)
February-2015 Examination

Time: 2 Hrs. [Max. Marks: 50]

BIOCHEMISTRY

Q.P Code: AHS-105

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

 $2 \times 10 = 20 \text{ Marks}$

- Describe Rutherford and Bohr's models of atomic structure? Add a note on their drawbacks.
- 2. Define salts? Write the classifications of salts with suitable examples? Add a note on applications.

SHORT ESSAY

 $3 \times 5 = 15 \text{ Marks}$

- 3. What are indicators? List any four commonly used indicators with PH range.
- 4. Discuss storage and handling dangerous chemicals with safety measures.
- 5. Define conventional units and S.I. units? Write S.I. units for any five parameters?

SHORT ANSWERS

5 X 3 = 15 Marks

- 6. What is a covalent blood? Give example.
- 7. Define normality? How do you prepare 100 ml of NaOH from 1N NaOH.
- 8. Write Aufbau principle.
- 9. Write Henderson-Hesselbach's equation and its uses.
- 10. Define acids and bases with examples.

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH (A DEEMED TO BE UNIVERSITY)

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

February-2015 Examination

Time: 2 Hrs.

[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

 $2 \times 10 = 20 \text{ Marks}$

- 1. Discuss methods of blood collection. Add a note on anticoagulants used in haematology.
- 2. Physical examination of urine.

SHORT ESSAY

 $3 \times 5 = 15 \text{ Marks}$

- 3. Sputum examination.
- 4. Sahlis's haemoglobin estimation.
- 5. Enumerate the differences between transudate and exudate.

SHORT ANSWERS

5 X 3 = 15 Marks

- 6. Uses of buffy coat.
- 7. Write the normal values of total WBC count, absolute eosinophil count and platelet count.
- 8. SI units.
- 9. Name three crystals seen in urine.
- 10. What is haematuria. Name the test for haematuria.

SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION & RESEARCH (A DEEMED TO BE UNIVERSITY)

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

February-2015 Examination

Time: 2 Hrs.

[Max. Marks: 50]

MICROBIOLOGY

Q.P Code: AHS-109

Your answers should be specific to the questions asked.

Draw neat labelled diagrams wherever necessary.

LONG ESSAY

 $2 \times 10 = 20 \text{ Marks}$

- Define nosocomial infections and write about the types of nosocomial infections.
 Add a note on the control of hospital acquired infections.
- 2. Define and classify sterilization. Discuss dry heat methods of sterilization and write a note on its sterilization controls.

SHORT ESSAY

 $3 \times 5 = 15 \text{ Marks}$

- 3. Bacterial cell wall
- 4. Bacterial antibiotic susceptibility testing.
- 5. Factors predisposing to bacterial pathogenicity.

SHORT ANSWERS

 $5 \times 3 = 15 \text{ Marks}$

- 6. TSI agar and its uses.
- 7. Koch postulates.
- 8. Hand hygiene.
- 9. Color coding of biomedical wastes.
- 10. Name four tests to demonstrate motility of organisms.