FIRST YEAR B.Sc. R.T./B.Sc. M.R.T./B.Sc. C.V.T./ B.Sc. R.R.T & D.T./M.Sc. N.M.T. DEGREE EXAMINATION – JUNE 2016

SUBJECT: ANATOMY (2015 & 2010 SCHEME/2011 SCHEME/2011 SCHEME/BDT 101/NR

Thursday, June 02, 2016

Time: 10.00-11.30 Hrs.

Max. Marks: 40

- Answer ALL the questions.
- 1. Name the parts of gastrointestinal system. Describe the stomach in detail.

(5+5 = 10 marks)

- 2. Write short notes on:
- 2A. Urinary bladder
- 2B. Fallopian tube / uterine tube
- 2C. Synovial joints
- 2D. Spinal cord
- 2E. Pharynx
- 2F. Gall bladder

 $(5 \text{ marks} \times 6 = 30 \text{ marks})$

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FIRST YEAR BOT/B.Sc. MRT/B.Sc. MLT/B.Sc. CVT/B.Sc. RT/B.Sc. RRT & DT/M.Sc. NMT DEGREE EXAMINATION – JUNE 2016

SUBJECT: PHYSIOLOGY

(2015 BATCH (BOT 106)/2011 SCHEME/ /2011 SCHEME (PAPER II)/2015 & 2010 SCHEME/BDT 102/NR (PAPER I)

Saturday, June 04, 2016

Time: 10.00-11.30 Hours.

Max. Marks: 40

- Answer ALL questions.
- **ℤ** Draw diagrams and flow charts wherever appropriate.

1. Essay Questions:

- 1A. Mention three functions of middle ear. Describe any one.
- 1B. Mention the normal heart rate. Give its normal value. Mention two conditions each for tachycardia and bradycardia.
- 1C. List any four hormones secreted by anterior pituitary and explain three actions of any one hormone.
- 1D. Draw a labelled diagram of dorsal column tract and list the sensations carried by it.

 $(5 \text{ marks} \times 4 = 20 \text{ marks})$

2. Short Answer Questions:

- 2A. Mention two functions of plasma proteins.
- 2B. Define and give the normal value of vital capacity.
- 2C. Give two differences between skeletal muscle and smooth muscle.
- 2D. Draw a labeled diagram of a nerve action potential.
- 2E. List two functions of liver.
- 2F. Define GFR. Give its normal value.
- 2G. List any two functions of hypothalamus
- 2H. Mention two actions of testosterone.
- 2I. List two functions of skin.
- 2J. Mention two hazards of mismatched blood transfusion.

 $(2 \text{ marks} \times 10 = 20 \text{ marks})$

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FIRST YEAR BPT/BOT/B.Sc. MLT/B.Sc. RT/B.Sc. CVT / B.Sc. RRT & DT/M.Sc. NMT DEGREE EXAMINATION – JUNE 2016

SUBJECT: BIOCHEMISTRY (NR/2015 & 2011 BATCH/ /2015 & 2010 SCHEME/2011 SCHEME/BDT 103/NR

Tuesday, June 07, 2016

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Max. Marks: 40

- Answer ALL the questions.
- 1. Describe the reactions of gluconeogenesis from lactate.

(8 marks)

2. Classify enzymes with one example each.

(6 marks)

- 3. Write short notes on the following:
- 3A. Dietary fibers
- 3B. Reactions of beta oxidation
- 3C. Basal metabolic rate
- 3D. Structure of DNA

 $(4 \text{ marks} \times 4 = 16 \text{ marks})$

- 4. Answer the following:
- 4A. Define transamination reaction with an example.
- 4B. Name two physiologically important products derived from tyrosine and tryptophan each.
- 4C. Name the vitamin deficient in scurvy, rickets, beriberi and pellagra.
- 4D. Write the normal serum levels of cholesterol and uric acid.
- 4E. Define a buffer and give two examples.

 $(2 \text{ marks} \times 5 = 10 \text{ marks})$

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FIRST YEAR B.Sc. R.T. DEGREE EXAMINATION – JUNE 2016

SUBJECT: PATIENT CONTACT TECHNIQUES (2015 & 2010 SCHEME)

Thursday, June 09, 2016

Time: 10.00-13.00 Hrs.

Max. Marks: 80

∠ Long Notes:

1. What is the significance of electrolyte management in the critically ill patients? Write the normal values of any four electrolytes and causes of increase and decrease of each electrolyte in detail. Explain the types of WBC with normal value.

(16 marks)

- 2. Describe the universal precautions taken when in contact with a patient with retroviral illness.

 (16 marks)
- 3. Short Notes:
- 3A. Chest topography
- 3B. Heart sounds
- 3C. Chest physical therapy
- 3D. FBAO
- 3E. Breathing exercises
- 3F. Postural drainage

 $(8 \text{ marks} \times 6 = 48 \text{ marks})$

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FIRST YEAR B.Sc. R.T. DEGREE EXAMINATION - JUNE 2016

SUBJECT: RESPIRATORY THERAPY SCIENCE – I (2015 & 2010 SCHEME)

Saturday, June 11, 2016

Time: 10:00-13:00 Hrs.

Max. Marks: 80

- Answer the following questions.
- 1. Discuss transcutaneous monitoring.

(16 marks)

2. Discuss the indications for aerosol therapy. Explain the use of meter dose inhaler.

(8+8 = 16 marks)

- 3. Write short notes on:
- 3A. Pressure regulators
- 3B. Oxygen Flowmeters
- 3C. Indications and complications of oxygen therapy
- 3D. Capnography
- 3E. Oxygen cylinder
- 3F. Pulse oximetry

 $(8 \text{ marks} \times 6 = 48 \text{ marks})$

Reg. No.

FIRST YEAR B.Sc. R.T. DEGREE EXAMINATION - JUNE 2016

SUBJECT: PHARMACOLOGY (2010 SCHEME)

Monday, June 13, 2016

Time: 10.00 - 13.00 Hrs.

Max. Marks: 80

1. Describe the different routes of administration with one example for each route.

(6+4 = 10 marks)

2. List four aminoglycosides and their side effects.

(5+5 = 10 marks)

3. What are sedatives? Classify sedatives and give two uses of sedatives.

(3+5+5=13 marks)

4. How do you classify diuretics? Write four indications of diuretics.

(5+5 = 10 marks)

- 5. What do you mean by congestive heart disease (CHD)? What are the drugs used for CHD? (3+7 = 10 marks)
- 6. Classify drugs used in bronchial asthma. Mention the mechanism of action of anti-cholinergic bronchodilators.

(7+5 = 12 marks)

- 7. Describe the following:
- 7A. Corticosteroids
- 7B. H₁ antihistamines
- 7C. Beta Blockers

 $(5 \text{ marks} \times 3 = 15 \text{ marks})$