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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.

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

Time: 10.00-11.30 Hours

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.

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

Reg. No.			

FIRST YEAR B.Sc. RRT & DT DEGREE EXAMINATION - JUNE 2016

SUBJECT: BDT 104 – OVERVIEW OF RENAL FAILURE AND BASICS OF DIALYSIS THERAPY, RENAL REPLACEMENT THERAPY

Thursday, June 09, 2016

Time: 10.00-13.00 Hrs.

Max. Marks: 80

1. Long essay questions.

- 1A. Explain the causes of anemia in chronic kidney disease and the role of epoietins in the treatment of anemia.
- 1B. Describe the complications of acute kidney injury.
- 1C. What is the importance of the Hemodialysis water treatment plant? Discuss any two of the components.

 $(10 \text{ marks} \times 3 = 30 \text{ marks})$

2. Short essay questions.

- 2A. How is water distributed in the body?
- 2B. Write a note on acquired immunity.
- 2C. Illustrate the vitamin D pathway.
- 2D. List the functions of the kidney. What is glomerular filtration rate?
- 2E. Describe the importance of blood grouping and cross matching.
- 2F. Explain living donor transplantation.

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

3. Short notes questions.

- 3A. What are the complications of hemodialysis catheter insertion?
- 3B. Mention four complications of chronic kidney disease.
- 3C. What are the methods of measuring blood pressure?
- 3D. Name four causes of acute kidney injury.
- 3E. What is convection?
- 3F. What are the modalities of renal replacement therapy?
- 3G. What are the stages of chronic kidney disease?
- 3H. What are the side effects of heparin?
- 3I. What is plasmapheresis?
- 3J. Define acute kidney injury.

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