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FIRST YEAR B.Sc. M.L.T./B.Sc. R.T./B.Sc. M.R.T./B.Sc. M.I.T./B.Sc. C.V.T./ B.Sc. R.R.T & D.T. DEGREE EXAMINATION – AUGUST 2015

SUBJECT: ANATOMY

Wednesday, August 26, 2015

Time: 10.00 - 11.30 Hrs.

Max. Marks: 40

Answer ALL the questions.

1. Name the components (parts) of female reproductive system. Describe the position, parts, relations, blood supply and lymphatic drainage of uterus.

(2+8 = 10 marks)

- 2. Write short notes on:
- 2A. Classification and structure of bones
- 2B. Lungs
- 2C. Aorta
- 2D. Anal canal
- 2E. Pituitary gland
- 2F. Lobes and functional areas of cerebral hemisphere

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

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FIRST YEAR BOT / B.Sc. MLT / B.Sc. CVT / B.Sc. MIT / B.Sc. RT / B.Sc. NMT / B.Sc. RRT & DT / B.Sc. MRT / DEGREE EXAMINATION – AUGUST 2015

SUBJECT: PHYSIOLOGY

Thursday, August 27, 2015

Time: 10.00 - 11.30 Hours.

Max. Marks: 40

Answer ALL questions. Draw diagrams and flow chart wherever appropriate.

1. Essay Questions:

- 1A. Explain the intrinsic mechanism of blood clotting.
- 1B. Draw and label a normal electrocardiogram from limb lead II and mention the causes for each wave.
- 1C. Mention any three functions of cerebellum. List any two features of cerebellar lesion.
- 1D. List four actions of thyroid hormones. Name the condition that results due to deficiency of thyroid hormones in adults.

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

2. Short Answer Questions:

- 2A. Describe rigor mortis
- 2B. Describe primary active transport mechanism with an example
- 2C. List two features of erythroblastosis fetalis
- 2D. What are the two different forms of carbon dioxide transport in blood?
- 2E. Define cardiac output. Mention its normal value
- 2F. Name the components of vestibular apparatus
- 2G. List any two functions of liver
- 2H. Mention any two actions of testosterone
- 2I. Define glomerular filtration rate. Give its normal value
- 2J. Mention two properties of sensory receptors

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



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FIRST YEAR BPT / BOT / B.Sc. MLT / B.Sc. RT / B.Sc. MIT / B.Sc. CVT / B.Sc. RRT & DT DEGREE EXAMINATION – AUGUST 2015

SUBJECT: BIOCHEMISTRY

Friday, August 28, 2015

Time: 10.00 - 11.30 Hours

Max. Marks: 40

- Answer ALL the questions.
- ✓ Draw diagrams and flow charts wherever appropriate.
- 1. Explain the oxidation of acetyl CoA in the TCA cycle and add a note on its energetics.

(8 marks)

2. Give a detailed account of the process of emulsification and absorption of lipids in the intestine.

(6 marks)

- 3. Write short notes on the following:
- 3A. Classification of lipoproteins based on density and their functions
- 3B. Ketolysis and its significance
- 3C. Basal metabolic rate
- 3D. Differences between DNA and RNA

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

- 4. Write brief answers for the following:
- 4A. Give the Henderson- Hasselbalch equation of bicarbonate buffer system with normal values of the components.
- 4B. Give normal serum level of calcium and mention THREE hormones involved in its regulation.
- 4C. Define essential amino acids with THREE examples.
- 4D. Classify polysaccharides giving ONE example each.
- 4E. Describe the effect of temperature on enzyme activity with a suitable graph.

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

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FIRST YEAR B.Sc. C.V.T. DEGREE EXAMINATION – AUGUST 2015

SUBJECT: PAPER IV – ELECTROCARDIOGRAM
(2011 SCHEME)

Saturday, August 29, 2015

Time: 10.00 - 11.30 Hrs.

Max. Marks: 40

- Answer ALL the questions.
- 1. Explain Action potential (Electrical) of Ventricular muscle, Sino-atrial node and Atrio-Ventricular node.
- 2. Explain the ECG criteria for Left Ventricular Hypertrophy.
- 3. Explain orthodromic and antidromic AVRT in detail.
- 4. Explain the ECG changes in Myocardial Infarction.
- 5. Define ECG findings of Atrial Fibrillation and Flutter.

 $(8 \text{ marks} \times 5 = 40 \text{ marks})$

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FIRST YEAR B.Sc. C.V.T. DEGREE EXAMINATION – AUGUST 2015

SUBJECT: PAPER V – BASICS IN CARDIOLOGY (2011 SCHEME)

Monday, August 31, 2015

Time: 10.00 - 11.30 Hrs.

Max. Marks: 40

- Answer ALL the questions.
- 1. Embryological development of inter ventricular septum.
- 2. Explain pulmonary circulation in detail with a labelled diagram.
- 3. Explain first heart sound and second heart sound.
- 4. Explain aorta and it's branches.
- 5. Explain coronary venous anatomy. Write a note on pericardial layers.

 $(8 \text{ marks} \times 5 = 40 \text{ marks})$