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FIRST YEAR B.Sc. M.L.T./B.Sc. N.M.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./M.Sc. N.M.T. DEGREE EXAMINATION – JUNE 2015

SUBJECT: ANATOMY

Tuesday, June 02, 2015

Time: 10.00-11.30 Hrs.

Max. Marks: 40

- Answer ALL the questions.
- 1. Name the parts of urinary system. Describe the right kidney.

(5+5 = 10 marks)

- 2. Write short notes on:
- 2A. Spinal cord
- 2B. Vas deferens
- 2C. Typical synovial joint
- 2D. Nasal septum
- 2E. Ovary
- 2F. Maxillary air sinus

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



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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/M.Sc. NMT DEGREE EXAMINATION – JUNE 2015

SUBJECT: PHYSIOLOGY

Thursday, June 04, 2015

Time: 10.00-11.30 Hours.

Max. Marks: 40

Answer ALL questions. Draw diagrams wherever necessary.

- 1. Essay Questions:
- 1A. Explain the chemical regulation of respiration.
- 1B. Draw and label an electrocardiogram (ECG) from limb lead II. Indicate any two intervals of ECG. Mention any two uses of ECG.
- 1C. Mention any two functions of cerebellum. List any three features of cerebellar lesion.
- 1D. Mention any two actions of growth hormone. List any three clinical features of acromegaly.

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

2. Write short answers for the following:

- 2A. List any two functions of hemoglobin.
- 2B. List any two functions of white blood cells.
- 2C. Write a note on achalasia cardia.
- 2D. Name the parts of the vestibular apparatus and mention one function of vestibular apparatus.
- 2E. Define blood pressure. Mention the normal systolic and diastolic blood pressure range in a normal adult, at rest.
- 2F. Mention any two functions of skin.
- 2G. Name two indicators of ovulation.
- 2H. Mention two differences between facilitated diffusion and active transport mechanism.
- 21. Mention two differences between skeletal and cardiac muscles.
- 2J. Give any two differences between rods and cones.

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



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

SUBJECT: BIOCHEMISTRY

Saturday, June 06, 2015

Time: 10.00-11.30 Hours

Max. Marks: 40

- Answer ALL the questions.
- @ Draw diagrams and flow charts wherever appropriate.
- 1. Explain anaerobic glycolysis and add a note on its energetics.

(8 marks)

2. Give a diagrammatic representation of the processes of emulsification and absorption of lipids in the intestine.

(6 marks)

- 3. Write short notes on the following:
- 3A. Components of electron transport chain and order of their arrangement
- 3B. Reactions of β -oxidation in mitochondria
- 3C. Importance of dietary fibers
- 3D. Secondary structure of proteins

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

- 4. Answer the following:
- 4A. List four differences between DNA and RNA.
- 4B. Write two reactions where the coenzyme form of niacin is required.
- 4C. List the four key enzymes of gluconeogenesis.
- 4D. Name one condition in which these biochemical parameters are increased in blood: glucose, uric acid, bilirubin and urea.
- 4E. Define buffer and write the Henderson-Hasselbalch equation.

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

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FIRST YEAR B.Sc. C.V.T. DEGREE EXAMINATION - JUNE 2015

SUBJECT: PAPER IV – ELECTROCARDIOGRAM (2011 SCHEME)

Tuesday, June 09, 2015

Time: 10.00-11.30 Hrs.

Max. Marks: 40

- Answer ALL the questions.
- Draw the diagram wherever necessary.
- 1. Explain localization of Myocardial Infarction by the help of diagram.
- 2. Explain WPW syndrome.
- 3. Define ECG in trifascicular block and enumerate the various causes.
- 4. Explain Electrocardiography in Electrolyte imbalance.
- 5. Write a note on QRS axis and its clinical significance.

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

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FIRST YEAR B.Sc. C.V.T. DEGREE EXAMINATION - JUNE 2015

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

Thursday, June 11, 2015

Time: 10.00-11.30 Hrs.

Max. Marks: 40

- Answer ALL the questions.
- 1. Describe Heart Tube formation.
- 2. Explain the factors determining the arterial Pressure.
- 3. Explain cardiac cycle with event timing.
- 4. Explain Aorta and its branches diagrammatically.
- 5. Explain the Pericardial anatomy.

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