Reg. No.

MANIPAL UNIVERSITY

FIRST YEAR B.Sc. M.L.T./ B.Sc. N.M.T./ B.Sc. R.T./ B.Sc. M.I.T./ B.Sc. C.V.T. DEGREE EXAMINATION – AUGUST 2011

SUBJECT: ANATOMY

Monday, August 22, 2011

1. List the endocrine glands in the human body. Briefly describe any two of the endocrine

glands.

(2+3+3 = 8 marks)

Max. Marks: 40

2. List the parts of digestive system. Explain the internal features of the pharynx.

(2+6 = 8 marks)

3. Answer briefly on:

Time: 10.00-11.30 Hrs.

- 3A. Typical spinal nerve
- 3B. Trachea
- 3C. Pericardium
- 3D. Male urethra
- 3E. Arch of the aorta
- 3F. Uterine tube
- 3G. External features of spinal cord
- 3H. Middle ear

 $(3\times8 = 24 \text{ marks})$

Dog No				
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MANIPAL UNIVERSITY

FIRST YEAR B.Sc.C.V.T DEGREE EXAMINATION - AUGUST 2011,

SUBJECT: PAPER - III:BIOCHEMISTRY

Wednesday, August 24, 2011

Time: 10.00-11.30 Hours Max. Marks: 40

- Answer ALL the questions.
- Z Draw diagrams and flow charts wherever appropriate.
- 1. Write in detail the synthesis of glucose from pyruvate.

(8 marks)

- 2. Discuss the metabolism of calcium under the following headings:
- 2A. Factors favouring and hindering absorption.
- 2B. SIX functions.

(3+3 = 6 marks)

3. Answer the following:

- 3A. With the help of a graph describe the effect of substrate concentration on enzyme activity.
- 3B. Write the reactions of ketogenesis.
- 3C. Explain the structure of Watson and Crick model of DNA.
- 3D. Name the lipoproteins and mention the function of each.

 $(4\times4 = 16 \text{ marks})$

4. Answer the following:

- 4A. Mention four differences between kwashiorkor and marasmus.
- 4B. Write short notes on the principle buffer system of the ECF.
- 4C. Write four functions of essential fatty acids.
- 4D. Define transamination reaction. Give one example.
- 4E. Give the co-enzyme form and the deficiency manifestations of thiamine and niacin.

 $(2\times5 = 10 \text{ marks})$



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FIRST YEAR B.Sc. C.V.T. DEGREE EXAMINATION - AUGUST 2011

SUBJECT: PAPER IV - ELECTROCARDIOGRAM

Thursday, August 25, 2011

Time: 10.00-13.00 Hrs. Max. Marks: 80

- 1. Explain Unipolar, Bipolar and Augmented leads with the help of Einthoven Triangle.

(20 marks)

2. Explain cardiac cycle in detail with the help of Diagram.

(20 marks)

- 3A. What are the criteria for AVNRT?
- 3B. What is cardiac axis? Explain the cardiac axis in different disease and condition.
- 3C. What are the ECG findings for VT & VF?
- 3D. Explain Trifascicular block.
- 3E. How do you detect atrial enlargement by ECG?