

**MANIPAL UNIVERSITY****FIRST YEAR B.Sc. C.V.T. DEGREE EXAMINATION – AUGUST 2012****SUBJECT: PAPER I: ANATOMY**

Tuesday, August 21, 2012

Time: 10.00-11.30 Hrs.

Max. Marks: 40

✍ **Answer ALL the questions.**

1. Name the parts of urinary system. Explain the position, external features, capsules and relations of the right kidney.

(1+1+2+1+3 = 8 marks)

2. Describe the gross anatomy of the eyeball with the help of a labeled diagram.

(8 marks)

3. **Answer briefly on:**

3A. Cartilage

3B. Para nasal air sinuses

3C. Internal features of larynx

3D. Functional areas of cerebrum

3E. Anal canal

3F. Prostate

3G. Female breast

3H. Suprarenal gland

(3×8 = 24 marks)



**MANIPAL UNIVERSITY**  
**FIRST YEAR B.Sc. C.V.T DEGREE EXAMINATION – AUGUST 2012**  
**SUBJECT: PAPER II: PHYSIOLOGY**

Wednesday, August 22, 2012

Time: 10.00-11.30 Hours.

Max. Marks: 40

✍ **Answer ALL questions. Draw diagrams wherever necessary.**

**1. Essay questions:**

- 1A. With the help of a schematic diagram, explain the process of intrinsic pathway of blood coagulation.
- 1B. Draw a neat labeled diagram of neuromuscular junction. Describe the events that occur during neuromuscular transmission in the form of flow chart.
- 1C. Mention three functions of middle ear. Describe any one.
- 1D. List any four hormones secreted by anterior pituitary and explain the actions of any one hormone.

(5×4 = 20 marks)

**2. Write short answers for the following:**

- 2A. Explain facilitated diffusion with an example.
- 2B. Mention two functions of lymph.
- 2C. Discuss two properties of sensory receptors.
- 2D. Define cardiac output. Give its normal value.
- 2E. Mention any two clinical features of Addison's disease.
- 2F. Describe the second stage of deglutition.
- 2G. List two functions of kidneys.
- 2H. What are the different types of hypoxia?
- 2I. Name the receptors for smell and taste. Where are they located?
- 2J. Mention any two actions of progesterone.

(2×10 = 20 marks)



**MANIPAL UNIVERSITY****FIRST YEAR B.Sc. C.V.T. DEGREE EXAMINATION – AUGUST 2012****SUBJECT: PAPER III – BIOCHEMISTRY**

Thursday, August 23, 2012

Time: 10.00-11.30 Hours

Max. Marks: 40

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

1. Describe the synthesis of mature collagen with diagrams. (8 marks)
  
2. Write the site, subcellular site and reactions of urea cycle. (6 marks)
  
3. **Write short notes on the following:**
  - 3A. Structure of DNA
  - 3B. FOUR functions each of calcium and phosphorus
  - 3C. Classification of lipids with examples
  - 3D. Reactions of  $\beta$ -oxidation in mitochondria(4×4 = 16 marks)
  
4. **Give brief answers for the following:**
  - 4A. Define specific dynamic action and give values for all THREE macronutrients.
  - 4B. Name FOUR physiologically important compounds derived from tyrosine.
  - 4C. Name TWO glycogen storage disorders with their deficient enzymes.
  - 4D. Define proenzymes with TWO examples.
  - 4E. Write the normal serum levels of uric acid, total protein, glucose and creatinine.(2×5 = 10 marks)



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## MANIPAL UNIVERSITY

FIRST YEAR B.Sc. C.V.T. DEGREE EXAMINATION – AUGUST 2012

SUBJECT: PAPER IV – ELECTROCARDIOGRAM

Friday, August 24, 2012

Time: 10.00-11.30 Hrs.

Max. Marks: 40

✍ Answer all the questions. Draw the Diagram wherever necessary.

1. Explain ECG in AV-block.
2. What are frontal plane leads? Illustrate the Einthoven Bipolar lead with diagram.
3. Narrow complex Tachycardia.
4. How do you differentiate Mobitz type II from third degree AV block?
5. Explain ECG changes in Myocardial Infarction.

(8×5 = 40 marks)



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## MANIPAL UNIVERSITY

FIRST YEAR B.Sc. C.V.T. DEGREE EXAMINATION – AUGUST 2012

SUBJECT: PAPER V – BASICS IN CARDIOLOGY

Saturday, August 25, 2012

Time: 10.00-11.30 Hrs.

Max. Marks: 40

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✍ **Answer all the questions. Draw the diagram wherever necessary.**

1. Explain Interventricular septal formation in Embryo.
2. Explain the methods of BP measurements.
3. Explain the conduction system of the Heart.
4. How do you identify the cardiac chambers anatomically?
5. Describe a Heart murmur.

(8×5 = 40 marks)

