

Reg. No.

**MANIPAL UNIVERSITY**

**FIRST YEAR B.Sc. C.V.T. DEGREE EXAMINATION – MAY/JUNE 2013**

**SUBJECT: PAPER I: ANATOMY**

Tuesday, May 28, 2013

Time: 10.00-11.30 Hrs.

Max. Marks: 40

**Answer ALL the questions.**

1. Describe the lobes and functional areas of cerebral hemisphere.

(2+6 = 8 marks)

2. Describe the position, lobes, surfaces, relations, blood supply and nerve supply of liver.

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

3. **Write briefly on:**

3A. Ureter

3B. Spermatic cord

3C. Breast

3D. Cartilage

3E. Thoraco-abdominal diaphragm

3F. Retina

3G. Superior vena cava

3H. Pituitary gland

(3×8 = 24 marks)



**MANIPAL UNIVERSITY****FIRST YEAR B.Sc. C.V.T. DEGREE EXAMINATION – MAY/JUNE 2013****SUBJECT: PAPER II: PHYSIOLOGY**

Thursday, May 30, 2013

Time: 10.00-11.30 Hours.

Max. Marks: 40

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

**1. Essay questions:**

- 1A. Classify leucocytes. Mention one function of each.
- 1B. Draw a neat labeled diagram of the visual pathway.
- 1C. Mention the site of formation and circulation of cerebrospinal fluid. List any two functions of cerebrospinal fluid.
- 1D. List five actions of cortisol.

(5×4 = 20 marks)

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

- 2A. Mention any two transport mechanisms across the cell membrane.
- 2B. Mention any two differences between the first and second heart sounds.
- 2C. Enumerate any two differences between skeletal and smooth muscles.
- 2D. Mention any two anticoagulants.
- 2E. Define stroke volume. Give its normal value.
- 2F. Mention the different forms in which oxygen is transported in the blood.
- 2G. List any two functions of liver.
- 2H. Define alveolar ventilation. Mention its normal value.
- 2I. List any two functions of placenta.
- 2J. Define renal threshold. Mention the renal threshold for glucose.

(2×10 = 20 marks)



## MANIPAL UNIVERSITY

FIRST YEAR B.Sc. C.V.T. DEGREE EXAMINATION – MAY/JUNE 2013

SUBJECT: PAPER III: BIOCHEMISTRY

Saturday, June 01, 2013

Time: 10.00-11.30 Hours

Max. Marks: 40

1. Write in detail the reactions of urea cycle. Add a note on two disorders of urea cycle.  
(8 marks)
2. Explain the metabolism of ketone bodies.  
(6 marks)
3. **Write short notes on the following:**
  - 3A. Structure of DNA
  - 3B. Secondary structure of proteins
  - 3C. Digestion of starch
  - 3D. Reactions of  $\beta$ - oxidation of palmitic acid in mitochondria  
(4×4 = 16 marks)
4. **Answer the following:**
  - 4A. Give two functions of dietary fibers.
  - 4B. Name two important products each derived from tyrosine and glycine.
  - 4C. List four functions of calcium.
  - 4D. Write the normal serum levels of total protein, uric acid, creatinine and total cholesterol.
  - 4E. What are proenzymes? Give two examples.  
(2×5 = 10 marks)



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**FIRST YEAR B.Sc. C.V.T. DEGREE EXAMINATION – MAY/JUNE 2013**  
**SUBJECT: PAPER IV – ELECTROCARDIOGRAM**

Tuesday, June 04, 2013

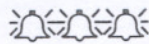
Time: 10.00-11.30 Hrs.

Max. Marks: 40

- ✍ **Answer all the Questions.**  
✍ **Draw the Diagram wherever necessary.**

1. Explain LVH criteria in ECG.
2. Explain WPW and LGL syndrome with ECG criteria's.
3. What are the fundamental Properties of cardiac rhythm? Explain the basic approach to cardiac arrhythmia.
4. ECG findings in atrial flutter and Fibrillation
5. Explain AVRT and AVNRT.

(8×5 = 40 marks)



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## MANIPAL UNIVERSITY

FIRST YEAR B.Sc. C.V.T. DEGREE EXAMINATION – MAY/JUNE 2013

SUBJECT: PAPER V – BASICS IN CARDIOLOGY

Thursday, June 06, 2013

Time: 10.00-11.30 Hrs.

Max. Marks: 40

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

1. Define embryological development of Heart tube.
2. Explain coronary venous anatomy.
3. Define functional and anatomical difference of ventricles.
4. Define continuous murmur and its causes.
5. Define JVP in various disease conditions.

(8×5 = 40 marks)

