Reg. No.

MANIPAL UNIVERSITY

FIRST YEAR B.Sc. N.M.T./ B.Sc. R.T./ B.Sc. M.I.T./ B.Sc. C.V.T. DEGREE EXAMINATION - AUGUST 2010

SUBJECT: ANATOMY

Monday, August 23, 2010

Time: 10.00-11.30 Hrs.

Max. Marks: 40

1. Explain the parts, relations, blood supply and nerve supply of stomach.

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

2. Describe the blood supply of heart.

(8 marks)

3. Answer briefly on:

3A. Intrinsic muscles of larynx

3B. Parts and external features of uterus

3C. Nerve supply of tongue

3D. Functional lobes of cerebellum

3E. Circulation of CSF

3F. Middle mediastinum

3G. Functions of hypothalamus

3H. Relations of left kidney

 $(3 \times 8 = 24 \text{ marks})$





MANIPAL UNIVERSITY

FIRST YEAR B.Sc. C.V.T. / B.Sc. M.I.T DEGREE EXAMINATION – AUGUST 2010 SUBJECT: PHYSIOLOGY

Tuesday, August 24, 2010

Time: 10:00 - 11:30 Hours

Maximum Marks: 40

1. Essay questions:

- 1A. Mention two functions of cerebellum. List any three features of cerebellar lesion.
- 1B. Define Landsteiner's law. Mention any three hazards of mismatched blood transfusion.
- 1C. List two properties of cardiac muscle .Discuss any one property in detail.
- 1D. Name the hormones of adrenal cortex. Mention four actions of these hormones.

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

2. Write short answers for the following:

- 2A. Mention two functions of placenta.
- 2B. Define GFR. What is the normal value of GFR?
- 2C. Name the receptors involved in vision and hearing.
- 2D. Mention the forms of carbon dioxide transport.
- 2E. List two functions of cerebrospinal fluid (CSF).
- 2F. Mention any two factors required for erythropoiesis.
- 2G. List two differences between first and second heart sounds.
- 2H. Describe facilitated diffusion.
- 21. Mention any two functions of saliva.
- 2J. Draw a labeled diagram of the neuromuscular junction.

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

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DEGREE EXAN	AINATION -	- AUGI	JST 20	10			

SUBJECT: BIOCHEMISTRY (NEW REGULATIONS)

Wednesday, August 25, 2010

Time: 10.00-11.30 Hours

Max. Marks: 40

- S Draw diagrams and flow charts wherever appropriate.
- 1. Discuss urea cycle under the following headings:
- 1A. Site and subcellular site.
- 1B. Reactions.
- 1C. Mention TWO disorders of urea cycle and their defective/deficient enzyme.

(1+5+2 = 8 marks)

2. Classify enzymes giving **ONE** example for each class.

(6 marks)

- 3. Write briefly on:
- 3A. Reactions of ketolysis.
- 3B. FOUR differences between marasmus and kwashiorkor.
- 3C. Causes and biochemical findings of metabolic acidosis.
- 3D. Dietary sources and functions of vitamin C.

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

- 4. Explain the following with an example
- 4A. Essential fatty acids.
- 4B. Specific dynamic action.
- 4C. Positive nitrogen balance.
- 4D. Proenzymes.
- 4E. Mutual supplementation of proteins.

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