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 – MAY 2009

SUBJECT: ANATOMY

Monday, May 18, 2009

Time: 10.00-11.30 Hrs.

Max. Marks: 40

1. List the parts of female reproductive system. Describe the position, parts, relations and blood supply of the uterus.

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

2. Explain the arterial supply and venous drainage of the heart.

(4+4 = 8 marks)

- 3. Answer briefly on:
- 3A. Skeletal muscle.
- 3B. Nasal septum.
- 3C. Superior vena cava.
- 3D. Nerve supply of tongue.
- 3E. Ureter.
- 3F. Right suprarenal gland.
- 3G. Cerebrospinal fluid.
- 3H. Corpus callosum.

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



Reg. No.

MANIPAL UNIVERSITY FIRST YEAR B.Sc. M.I.T./ B.Sc.C.V.T. DEGREE EXAMINATION – MAY 2009 SUBJECT: PHYSIOLOGY

Tuesday, May 19, 2009

Time: 10.00-11.30 Hrs.

Max. Marks: 40

1. Essay questions:

- 1A. What is Landsteiner's Law? Explain its application in ABO and Rh system.
- 1B. Describe the events in the second phase of deglutition.
- 1C. Describe the mechanism of skeletal muscle contraction.
- 1D. Describe the regulation of thyroid hormone secretion.

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

2. Write short answer for the following:

- 2A. List four functions of WBCs.
- 2B. Draw a labeled diagram of the nerve action potential.
- 2C. Name four different types of transport mechanism across the cell membrane.
- 2D. Define refractory period. Mention its significance in cardiac muscle.
- 2E. Define hypoxia. Name different types of hypoxia.
- 2F. Name different types of intestinal movement and mention their significance.
- 2G. Write four features of acromegaly.
- 2H. Name two tests used to detect the day of ovulation.
- 2I. Name any two sensory tracts and the sensations carried by them.
- 2J. Write four functions of hypothalamus.

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

	Reg. No.											
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FIF	FIRST YEAR B.P.T./B.O.T/ 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 – MAY 2009											
	SUBJECT: BIOCHEMISTRY (NEW REGULATIONS)											
Tim	Wednesday, May 20, 2009 e: 10.00-11.30 Hours Max. Marks: 40											
1.	Explain the β -oxidation of palmitic acid. Add note on its energetic.											
	(5+2 = 7 marks)											
2.	Describe the pathway of urea synthesis. Mention the disorders of urea cycle with defect.											
	(4+2 = 6 marks)											
3.	Give an account of glycogen metabolism.											
	(3+3 = 6 marks)											
4.	Discuss protein energy malnutrition in detail.											
	(7 marks)											
5.	Explain how substrate concentration affects enzyme activity.											
	(4 marks)											
6	Write the stars involved in the activation of vitamin D in the body											
0.	(3 marks)											

7. Write note on Dietary Fibers.

IJ

(3 marks)

8. Explain Essential fatty acids under the following Definition, examples and functions. $(\frac{1}{2}+1+2\frac{1}{2}=4 \text{ marks})$

		Reg. No.									
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	FIRST YEAR B.Sc. C.V.T.	DEGREE	EXA	AM	INA	ATI	ON -	- MA	Y 20	09	
SU	BJECT: ELECTRODIAGNOSIS A	ND HOLLE	ER R	EC	ORI	DING	AN	D BP	RECO	ORDI	NG
	Thu	rsday, May 2	1, 20	009							
Tim	e: 10.00-13.00 Hrs.	nda (1966-19							Max.	Marks	s: 80
ø	Answer all the Questions, Label th	he diagram v	vher	ever	r nec	essa	ry:				
1.	Explain anatomy and circulation of coronary arteries with a labeled diagram.										
									(20 ma	arks)
2	Explain anatomy and physiology of	conduction s	vster	n of	the	heart					
	und physiclegy of	conduction 5	y 5001	11 01	the	neur			C	20 m:	arks)
									(0.11	20 111	and)
3A.	Explain the ECG differentiation betw	ween SVT an	d V7	Γ.							
3B.	Explain normal and abnormal heart	sounds.									
3C.	Explain the ECG Criteria for LVH.										
3D.	What are the ECG findings in VPC'	s and APC's	?								
3E.	Explain ventricular tachycardia.									-	
								($8 \times 5 = 4$	40 ma	arks)