Reg. No. MANIPAL UNIVERSITY M.Sc. MEDICAL (FINAL) ANATOMY DEGREE EXAMINATION - FEBRUARY 2013 PAPER I: GROSS ANATOMY, APPLIED ANATOMY AND MORPHOLOGY Tuesday, February 05, 2013 Time: 14:00 - 17:00 Hrs. Maximum Marks: 100 Answer ALL the questions. Illustrate your answers with neatly drawn and correctly labeled diagrams wherever necessary. Describe a typical intercostal nerve and its applied aspects. (25 marks) Describe the supports of uterus and its applied aspects. (25 marks) Describe the parotid gland. Discuss its applied aspects. (25 marks)

4. Write short notes on:

- 4A. Perineal membrane
- Lymphatic drainage of the breast 4B.
- 4C. Rima glottidis *
- 4D. Azygos vein

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1.

2.

3.

4E. Subtalar joint

 $(5 \times 5 = 25 \text{ marks})$

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M.Sc. MEDICAL (FINAL) ANATOMY DEGREE EXAMINATION - FEBRUARY 2013 PAPER II: EMBRYOLOGY, HISTOLOGY AND GENETICS

Wednesday, February 06, 2013

Time: 14:00 – 17:00 Hrs.

Answer ALL the questions. ø

- Illustrate your answers with neatly drawn and correctly labeled diagrams wherever Ø necessary.
- Describe the process of gastrulation. List the tissues and organs derived from each of the 1. germ layers.
- List the derivatives of the midgut and describe with the aid of simple diagrams, herniation, 2. rotation, reduction and fixation of the gut.

(25 marks)

(25 marks)

Describe the microscopic anatomy of the kidney. Add a note on the structure and function of 3. the Juxta glomerular apparatus.

(25 marks)

Write short notes on: 4

- 4A. Structural alterations of chromosomes
- 4B. Down's syndrome
- 4C. Dominant genes
- 4D. Synapse
- 4E. Mitochondria

 $(5 \times 5 = 25 \text{ marks})$

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Maximum Marks: 100

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M.Sc. MEDICAL (FINAL) ANATOMY DEGREE EXAMINATION – FEBRUARY 2013 PAPER III: NEUROANATOMY AND RECENT ADVANCES

Thursday, February 07, 2013

Time: 14:00 – 17:00 Hrs.		Maximum Marks: 100
Ľ	Answer ALL the questions.	
1.	Describe the anatomy, connections and functions of basal ganglia.	
		(25 marks)
2.	Describe the fourth ventricle of brain and give its applied anatomy.	
2.	Deserve nie rou ur ventriere of orani una give nis appried anatomy.	(25 marks)
		and the second second
3.	Describe the facial nerve and its applied aspects.	
		(25 marks)
4.	Write short notes on:	
4A.		
4B.	Nuclei of cerebellum	
4C.	Magnetic resonance imaging	
4D.	Spinothalamic tracts	
4E.	Lumbar puncture	

 $(5 \times 5 = 25 \text{ marks})$