UNIVERSITY OF JAFFNA, SRI LANKA FIRST EXAMINATION (1) FOR MEDICAL DEGREES – FEBRUARY 2010 **ANATOMY PAPER II**

3.6

	Date: 01.02.2010	Time: 3 hours			
		9.00AM-12.00			
	Answer all ten questions				
	Marks allotted to each question is given within the brackets				
	various sur a la cata de la cata	(10 marks)			
1.1	What are the contents of mediastinum?	(20 marks)			
1.2	Where is the plane of Louis and what is its significance?	(30 marks)			
1.3	Briefly describe the course of the right phrenic nerve in thorax.	(30 marks)			
1.4	Mention the structures forming the base of the heart.	(10 marks)			
1.5	Outline the course of left coronary artery.	(20 marks)			
1.6	What are the branches of the thoracic aorta?	(10 marks)			
2.1	Name the embryological structures involved in the development of the diaphragm.	(15 marks)			
2.2	Mention the main openings in the diaphragm and list the structures passing through each of them.	(30 marks)			
2.3	Enumerate 5 structures making their own small openings in diaphragm.	(10 marks)			
2.4	What is the nerve supply to the diaphragm?	(10 marks)			
2.5	What is the function of the diaphragm?	(10 marks)			
2.6	Where would a congenital diaphragmatic hernia commonly arise?	(10 marks)			
2.7	What other type of diaphragmatic hernia do you know about?	(15 marks)			
A 60 year old woman had a palpable breast mass in left upper outer quadrant. There was dimpling of skin in the area over the lump. Pathological examination revealed					
intraductal carcinoma in the needle biopsy.					
3.1	Define the base of the breast?	(10 marks)			
3.2	Describe the duct and lobular system in the breast.	(20 marks)			
3.3	What is Cooper's ligament?	(10 marks)			
3.4	Explain the anatomical basis of skin change in the breast over the lump.	(20marks)			
3.5	Which lymph nodes are most likely to be affected first in breast cancer?	(10 marks)			
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What are the methods of classification of the lymph nodes mentioned in 3.5?

(30 marks)

(10 marks)

4.	A 37 year old man, while driving a car, thrown forward by a sudden break. His left						
	knee strikes the dashboard violently and he feels a painful pop in his left hip.						
	Radiograph revealed a posterior hip dislocation.						
	4.1	Enumerate the stabilizing factors of hip joint.	(30 marks)				
	4.2	Which is the weakest position of the hip joint in seated position?	(20 marks)				
	4.3	Name the ligament which would be torn in posterior dislocation.	(10 marks)				
	4.4	What is the main blood supply to head of femur and how it reaches the joint?	(25 marks)				
	4.5	What clinically important structure is at potential risk in posterior dislocation	(15 marks)				
		and mention its origin?					
5.	A 30	year old man was admitted to the surgical casualty ward with a colicky					
	abdo	abdominal pain of right side which was radiating from loin to groin. The clinical					
	diagnosis was ureteric stone						
	5.1	Briefly describe the course and relations of abdominal ureter.	(30 marks)				
	5.2	Illustrate the most possible sites at which the ureteric stone can lodge.	(15 marks)				
	5.3	Name the bony landmarks that help in locating the stone in the ureter in	(15 marks)				
		plain x-ray.					
	5.4	What is the blood supply to the ureter?	(20 marks)				
	5.5	Describe the histology of ureter.	(20 marks)				
6.	A 60 year old man with a history of chronic duodenal ulcer was admitted to the						
	hospital in an unconscious state. This was diagnosed as perforation of the 1 st part of						
	the d	uodenum with haemorrhage due to erotion of an artery.					
	6.1	Which artery is prone to be eroded in the perforation of duodenal ulcer?	(10 marks)				
	6.2	Describe the anatomical relations of $1^{\rm st}$ part of the duodenum.	(40 marks)				
	6.3	Enumerate the endoscopic appearance (internal appearance) of the normal 2 nd	(20 marks)				
		part of the duodenum.					
	6.4	Brief out the development of duodenum and list the anomalies related to it.	(30 marks)				
7.	A 12 year old boy is diagnosed to have an upper trunk brachial plexus injury, after						
	falling on shoulder						
	7.1	What is the most likely etiology for this condition?	(10 marks)				
-	7.2	Name another condition leading to upper brachial injury.	(10 marks)				
	7.3	List the nerves affected by this injury and the muscles supplied by them	(40 marks)				
	7.4	List the actions of those muscles mentioned in 7.3	(30 marks)				

Describe the position of the upper limb in this condition and how it is called?

7.5

8.1	Write the name of the bones forming the nasal cavity	(20 marks)
8.2	List the structures in the lateral wall of the nasal cavity.	(30 marks)
8.3	Write short notes on the Littles area.	(15 marks)
8.4	Briefly describe the development of nasal septum.	(20 marks)
8.5	Mention the histological features of the olfactory epithelium.	(15 marks)
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9.1	Write briefly the relations of the prostate gland.	(30 marks)
9.2	What are the coverings of the prostate gland?	(20 marks)
9.3	Name the zones involved in the benign prostatic hypertrophy and carcinoma	(20 marks)
	of the prostate.	
9.4	Mention the course of ejaculatory ducts inside the prostate.	(10 marks)
9.5	What is the internal appearance of prostatic urethra and its clinical importance?	(20 marks)
10.1	Describe the anatomical location of the thalamus.	(30 marks)
10.2	How do the nuclei of thalamus divide functionally?	(20 marks)
10.3	Briefly describe the development of the thalamus.	(15 marks)
10.4	Name any three tracts that pass through the thalamus.	(15 marks)
10.5	Trace the pain pathway originating from the right thumb to cerebral cortex.	(20 marks)
