UNIVERSITY OF JAFFNA, SRI LANKA FIRST EXAMINATION FOR MEDICAL DEGREES - NOVEMBER 2014

ANATOMY - PAPER II

Date: 12.11.2014

3.4

Answer all TEN questions (Answer each part in separate answer book)

PART A

1	Write	short	notes	on

Lateral wall of nasal cavity 1.1

1.2 Middle ear

1.3 Internal jugular vein 30 Marks

Time: 3 hours

40 Marks

30 Marks

- A 71 year old man was admitted to the emergency department due to sudden onset of right sided weakness. Examination revealed right sided hemiplegia and hemianaesthesia
 - Draw and label circle of Willis

30 Marks

- 2.2 With line diagrams show the areas of arterial distribution on
 - 2.2.1 Lateral surface of cerebral hemisphere

20 Marks

2.2.2 Medial surface of cerebral hemisphere

20 Marks

Describe the above symptoms on the basis of defect to the blood supply of 2.3 cerebrum

30 Marks

A 63 year old man was admitted to surgical ward with right lower limb pain that aggravates with walking. Investigations revealed popliteal artery aneurysm and the patient was scheduled for a surgery.

3.1	List the boundaries of the popliteal fossa	20 Marks
3.2	Describe the contents of popliteal fossa and their relation	30 Marks

Explain on anatomical basis how the popliteal pulse is checked 3.3

Describe the arterial anastomosis around the knee joint

20 Marks 30 Marks

A patient had a swelling below the lower jaw on the right side. The swelling increased in

size d	uring eating. The surgeon did a bimanual examination of the submandibular salivary
gland	
4.1	Describe the gross anatomy of submandibular salivary gland

4.1	Describe the gross anatomy of	submandibular salivary gland	45 Marks

20 Marks 4.2 Describe the submandibular duct

4.3 Name the vulnerable structure that can be affected during incision for 10 Marks submandibular surgery

Where the incision is made to prevent the damage of the above structure (4.3) 10 Marks 4.4

Mention the anatomical basis of bimanual examination of submandibular gland 15 Marks 4.5

PART B

5		year old male was brought to the hospital following a motor bike accident. The patier ed features of Erb's paralysis.	nt	
	5.1	Describe the formation of brachial plexus	50 marks	
	5.2	Write the location of the different components in the brachial plexus precisely	20 Marks	
	5.3	What is/are the cause(s) for the above paralysis	10 Marks	
	5.4	Write the characteristic features of the Erb's paralysis	20 Marks	
6.	Regar	ding abdominal part of aorta		
0.	6.1	List the ventral branches of abdominal aorta	10 Marks	
	6.2	Write the branches arising from the above (6.1) separately	40 marks	
	6.3	List the paired branches arising from it	20 Marks	
	6.4	Briefly describe the light microscopic appearance of aorta	30 Marks	
7.				
	7.1	Regarding liver		
		7.1.1 Write the surface marking	20 Marks	
		7.1.2 Briefly describe the structural features of visceral surface of liver	30 Marks	
		7.1.3 Describe the light microscopic appearance of liver	25 Marks	
	7.2	Write notes on methods to prevent birth defects	25 Marks	
2.2 Expain on anatomical sests how the populary cultar decided.				
		PART C		
A 55 year- old female had a lump in the upper outer quadrant of the right breast. It was histologically confirmed as carcinoma				
	8.1	Enumerate the anatomical extent of the female breast	15 Marks	
	8.2	List the arteries which supply the breast	25 Marks	
	8.3	Write the lymphatic drainage of the breast	25 Marks	
	8.4	Briefly describe the development of breast and indicate three anomalies	35 Marks	

9.	A 68 year-old woman had a history of passing blood stained stools for three months. After the proctoscopic examination it was diagnosed as internal hemorrhoids		
	9.1	Name the blood vessels which are engorged in the above condition	10 Marks
	9.2	Describe the microscopic features of anal canal	25 Marks
	9.3	Describe the external anal sphincter	25 Marks
	9.4	Write the blood supply, lymphatic drainage & nerve supply of anal canal	40 Marks
10.	 A 75 year-old man had a one year history of difficulty and frequency in micturition. Per rectum examination confirmed the enlargement of prostate. 		
	10.1	Draw and label the internal appearance of prostatic urethra	30 Marks
	10.2	Write briefly about the capsules of prostate	30 Marks
	10.3	Name the zones which are involved in cancer and benign lesion	20 Marks
	10.4	Write the development of prostate gland	20 Marks