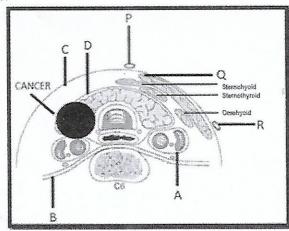
UNIVERSITY OF JAFFNA, SRILANKA FIRST EXAMINATION FOR MEDICAL DEGREES – JUNE 2022 ACADEMIC YEAR 2019/20 ANATOMY – PAPER II

Time: Three hours

Date :27.06.2022 Answer all TEN Questions

Answer EACH QUESTION in a separate answer book

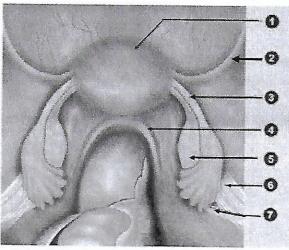
 A 36 -year- old female presented with a moving lump with swallowing at the anterior triangle of the neck. She was diagnosed as having thyroid cancer and her line diagram of CT scan image is given. She also complains difficulty in swallowing and hoarseness of voice.



	Answ	er the questions 1.1 to 1.6 using the above diagram		
	1.1	Mention the view of CT Scan	10 Marks	
	1.2	Write the location of the thyroid cancer in this patient	10 Marks	
	1.3	Identify A,B,C,D (deep fascias) of the neck	10 Marks	
	1.4	List 4 contents of 'A'	10 Marks	
	1.5	Identify P,Q,R	10 Marks	
	1.6	Write the nerve supply and action of 'Q'	10 Marks	
	1.7	List the margins of the anterior triangle of the neck	10 Marks	
	1.8	Explain the anatomical basis for following (write your answer in one sentence)		
		1.8.1 Thyroid lump moving with swallowing	10 Marks	
		1.8.2 Difficulty in swallowing and difficulty in breathing with goiter	10 Marks	
		1.8.3 Hoarseness of voice	10 Marks	
2.	Regarding Rectum			
	2.1	List the gross anatomical differences between the sigmoid colon and rectum	10 Marks	
	2.2	Describe the peritoneal reflections of rectum and outline its clinical importance	20 Marks	
	2.3	Define mesorectum and give its clinical importance	25 Marks	
	2.4	Name the structures that can be palpated by digital rectal examination in a	10 Marks	
		healthy adult male		
	2.5	List two important structures that can be damaged during surgical removal of	10 Marks	
		upper rectum in a male patient		
	2.6	Mention the embryological origin of rectum	10 Marks	
	2.7	List the layers of the rectal wall under light microscope	15 Marks	

3. A patient underwent Total Laparoscopic Hysterectomy and Bilateral Salphingo-Oophorectomy (TLH + BSO) due to malignancy

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	Ans	wer the question $3.1 - 3.4$ using the above diagram		
	3.1	Mention the view of the above diagram	10 Marks	
	3.2	Identify 1, 2, 3, 4, 5, 6 and 7	15 Marks	
	3.3	Write the embryological origin and attachment of '2'	10 Marks	
	3.4	List the structures pass through '6'	25 Marks	
	3.5	List the structures that should be cut / ligated / cauterized during this procedure	20 Marks	
	3.6	List an important structure that could be damaged during this procedure	10 Marks	
	3.7	Mention the common sites of its damage (structure mentioned in 3.6) in the above procedure	10 Marks	
4				
*	4.1	Outline the joints formed by a typical rib and indicate their types separately	20.34 1	
	4.2	Write notes on anastomosis of coronary arteries	20 Marks	
	4.3	Outline the sites where constrictions are present in the oesophagus	30 Marks	
	4.4	Write notes on autosomal recessive inheritance pattern	20 Marks	
		waste acres on autosomal recessive inheritance pattern	30 Marks	
5	A 26-year female complains of nasal obstruction with unpleasant smell, facial pain and nasal discharge. Doctor noted tenderness over the cheek region, and it was diagnosed as acute maxillary sinusitis.			
	5.1	Write short notes on maxillary sinus	20 Marks	
	5.2	Briefly describe the structures present in the lateral wall of the nasal cavity	30 Marks	
	5.3	Write the type of epithelium lining the lateral wall of the nasal cavity	10 Marks	
	5.4	Write short notes on lacrimal apparatus	30 Marks	
	5.5	Mention the paranasal sinus, which is not present at birth	10 Marks	
6	6.1	Outling the main and		
U	0.1	Outline the major somatosensory pathways in the spinal cord with reference to 6.1.1 tracts involved		
			10 Marks	
			10 Marks	
		- JPool (x , 2 & 5 order neurons)	20 Marks	
		ANALYSIS SEC. ANALYSIS SEC. (C) OF SEC. TO THE VAN	10 Marks	
	6.2		10 Marks	
	0.4	Describe the vertebral venous plexus and its clinical importance	40 Marks	

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7	A 55-year male had undergone a surgical repair for inguinal hernia on the left side ULTY OF MEDIC					
	The surgeon found that it was a direct inguinal hernia.					
	7.1	Mention the anatomical reason(s) to support the statement of the surgeon ("direct inguinal hernia")	20 Marks			
	7.2	Explain on anatomical basis, how to differentiate an inguinal hernia from femoral hernia	10 Marks			
	7.3	Briefly describe the posterior wall of inguinal canal	25 Marks			
	7.4	Write the layers of the abdominal wall likely to be incised to reach the hernial sac	15 Marks			
	7.5	Mention one complication that may result from inguinal hernia	10 Marks			
	7.6	Write the nerve supply to each of the muscles of the anterior abdominal wall separately	20 Marks			
8	A 52-year female patient had an abnormal gait and it was diagnosed as Trendelenburg gait					
	8.1	Describe briefly the anatomical reason for this abnormal gait	35 Marks			
	8.2	List the structures pass through the greater and lesser sciatic foramina	25 Marks			
	8.3	Draw and label a diagram of coronal section of the hip joint to show its relations	30 Marks			
	8.4	Name two flexor muscles of the hip joint	10 Marks			
9	Δ 50)-year male presented emergency department with upper abdominal pain, radiates				
9	to back and relief by bending forward. He was diagnosed to have acute pancreatitis.					
	9.1	Describe the anatomical relations of the pancreas	50 Marks			
	9.2	Describe the blood supply and the lymphatic drainage of the pancreas	35 Marks			
	9.3	Describe the developmental abnormalities of the pancreas and its clinical importance	15 Marks			

10 A newborn child presented with the following right sided deformity after a forceps delivery due to shoulder dystocia



10.1	Name the above condition	20 Marks
	Identify the deformity (characteristic position of the limb)	30 Marks
10.3	List the muscles and the nerves involved in the above deformity	50 Marks