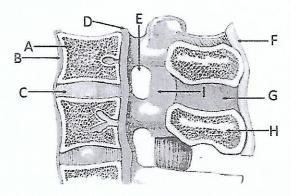
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## UNIVERSITY OF JAFFNA, SRILANKA FIRST EXAMINATION FOR MEDICAL DEGREES – OCTOBER 2022 ACADEMIC YEAR 2019/20 ANATOMY – PAPER II

Date :05.10.2022 Time: Three hours
Answer all TEN Questions
Answer EACH QUESTION on separate answer book

1.	Regarding ovary					
	1.1	Descri	ibe the gross structure of the ovary	20 Marks		
	1.2	Descri	ibe the relations of ovary	20 Marks		
	1.3	Descri	ibe the attachments of the ovary	20 Marks		
	1.4	Outlin	e the blood supply of ovary	20 Marks		
	1.5	Outlin	e the lymphatic drainage of the ovary	20 Marks		
2.	A 55-year man underwent a surgical repair for his chronic duodenal ulcer. During					
	surgery, perforation of posterior part of first part of duodenum, and haemorrhage due					
	to ero	to erosion of an artery were observed.				
	2.1	Outlin	e the anatomical relations of first part of duodenum	40 Marks		
	2.2	What	is the artery most likely eroded in this patient?	10 Marks		
	2.3	Give r	reasons for your answer (in above 2.2)	10 Marks		
	2.4	Write	the organs / structures supplied by the artery mentioned above (in 2.2)	20 Marks		
	2.5	Outlin	the lymph drainage of duodenum	20 Marks		
3.	3.1	A 59-	year man with a right dominance heart was admitted to the hospital.			
		Diagnostic tests indicated severe multiple blocks in the anterior				
		interventricular artery. It was decided to perform a coronary bypass surgery.				
		During surgery, sternum was split to access the internal organs / structures.				
		3.1.1	Briefly describe the term "right dominance heart"	15 Marks		
		3.1.2	List the main parts of sternum and mention the type of joints lie in	15 Marks		
			between them separately			
		3.1.3	Mention the structure(s) that connects the sternum with pericardium	10 Marks		
		3.1.4	Write notes on anterior interventricular artery	30 Marks		
	3.2	List si	ix (6) facial features of Down syndrome	30 Marks		

4. Part of vertebral column and structures / ligaments connecting the vertebrae are shown in the figure below. Answer the questions using the diagram



4.1	Mention the view of the above diagram	10 Marks
4.2	Identify A, B, C, D, E. F, G, H	35 Marks
4.3	What layers will be pierced during lumbar puncture?	15 Marks
4.4	Mention two (2) indications for lumbar puncture	10 Marks
4.5	Name two (2) structures which are passing through 'E'	20 Marks
4.6	What are the components of 'C'	10 Marks

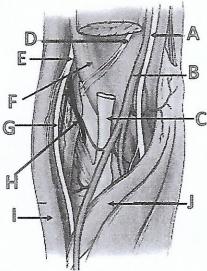
A 30 year old man with chronic infection of right submandibular gland, underwent submandibular adenectomy (submandibular gland excision)

5.1	Describe the surfaces and relations of the superficial part of the gland	30 Marks
5.2	Mention the muscle that lies medial to the deep part of the gland	10 Marks
5.3	List the other structures lying on the lateral surface of the muscle that you	20 Marks
	mentioned in 5.2	
5.4	Where does the duct of the above gland open?	10 Marks
5.5	Mention the structure possibly get damaged during making skin incision	10 Marks

- 5.6 After gland excision the patient complains of loss of sensation in anterior 2/3 10 Marks of the tongue. Which structure would have injured during the surgery?
- 5.7 Mention two (2) reasons for high incidence of infection/ calculus formation in 10 Marks submandibular gland and duct
- 6 Regarding rectum
  - 6.1 Describe the anatomy, relations, blood supply and lymphatic drainage of the 70 Marks rectum
  - 6.2 Describe the mesorectum and its clinical importance 30 Marks

7	46 -5	46 -year old male presented with vision impairment. He complained that he bumps					
	with	with the sides of a doorway and with people on each side. On examination the patient					
	foun	found to have bitemporal hemianopia. The physician assumed the presence of rapidly					
	expa	expanding pituitary tumor. Radiological examination confirmed the diagnosis					
	7.1	Ment	tion the anatomical location of the pituitary gland	10 Marks			
	7.2	With	a schematic diagram show the relations of the pituitary gland	20 Marks			
	7.3	Draw	the visual field assessment report	20 Marks			
	7.4	Draw	and label a line diagram of visual pathway	40 Marks			
	7.5	In the	e diagram 7.4, indicate the site of lesion leading to bitemporal	10 Marks			
		hemi	anopia				
8	A 72-year-old woman was admitted to the emergency room after falling at home. She						
		complained of a severe pain in her right hip. Plain radiograph revealed fracture of the					
		right neck of the femur					
	8.1	What	will be the position of the leg after the femoral neck fracture? Explain	20 Marks			
			natomical basis				
	8.2	With	a line diagram show the sources of blood supply to the femoral head	30 Marks			
	8.3		he types of femoral neck fracture	20 Marks			
	8.4	Whic	h type of fracture mention in 8.3 would lead to avascular necrosis?	20 Marks			
		Expla	ain the anatomical basis (write your answer in one sentence)				
	8.5	Ment	ion two (2) other bones that would undergo avascular necrosis after	10 Marks			
		fractu	ure				
9.	Regarding the Diaphragm						
	9.1	Menti	ion the major parts of the diaphragm and their surface landmarks	20 Marks			
	9.2						
		9.2.1	List the major three (3) openings in the diaphragm	09 Marks			
		9.2.2	Mention the vertebral levels of each opening mentioned in 49.2.1	09 Marks			
		9.2.3	List the structures passes through each opening mentioned in @.2.1	22 Marks			
	9.3	No. 1					
	9.4	How the paralysis of the diaphragm could be identified with radiograph? 10 M					
	9.5						
		9.5.1	Mention the commonest type of congenital diaphragmatic hernia	10 Marks			
		9.5.2	Give the embryological basis of 9.5.1	10 Marks			

10 Schematic diagram of the right cubital fossa is given below. Answer the questions using the diagram



10.1	Identify A, B, C, D, E, F, G, H, I, J	40 Marks
10.2	What is the distribution of structure 'G'?	10 Marks
10.3	What would be the clinical presentation if structure 'H' is injured?	10 Marks
10.4	Mention the action of Structure 'F'	10 Marks
10.5	Describe on anatomical basis, one (1) motor test to access the integrity of	20 Marks
	structure 'A'	
10.6	Mention two (2) clinical uses of structure 'B'	10 marks