VIVAs abdomen/pelvis

Question 4:					
Photo: Aorta/IVC/kidneys Aajor vessels, ranches and ourse of	Identify the structures visible in thi photo. Name the branches of the abdomin aorta		Kidneys, ureters, psoas major, diaphragm, adrenals, IVC 7, L renal vein 12, R renal v 2 aorta 1, celiac trunk 2, sup mesenteric art 28 Single - coeliac trunk, superior mesenteric a inferior mesenteric artery Paired –common iliacs, ovarian/testiculars, superior and inferior adrenals, right and left inferior phrenics, lumbar arteries	3,	to pass
	Name the branches of the coeliac to and what do they supply	runk	Arises at T12, supplies liver, stomach, spleen, oesophagus and superior pa duodenum and pancreas branches are L gastric, common hepatic and splenic	art of	xtra info
Question 2: BONE: Sacrum	a) Identify the features of this bone?	4 pairs of posterior Ala Sacroilia Superior Lumbros	consists of 5 fused bones and the coccyx f sacral foramina – S1-S4 anterior larger than c joint Articular facets acral joint I lines – median, intermediate and lateral	Any 4 to pass	5
Question 5 Discussion: Abdomen surface anatomy + Transpyloric plane	(a) Describe the transpyloric plate (b) What are the anatomical strutansected at the transpyloric	uctures	Transpyloric line (halfway between manul symphysis pubis- typically at L1) Or half-way between the xiphisternum and Pylorus Fundus of gall bladder Neck of pancreas SMA origin Hepatic portal vein Root of transverse mesocolon Duodenojejunal junction Hila of kidneys (L above R below) Hepatic and splenic flexures of the colon Comus medullaris		4 to pass

Question 5	(a) Name the branches of the abdominal	Anterior midline branches	4 Bold to +3 others to
The second	aorta	-Celiac	pass
Discussion:		-Superior mesenteric	<i>*</i>
Abdominal		-Inferior mesenteric	
Aorta –		Lateral branches	
Branches		-Supra-renal	
p313		-Renal	
73.10		-Gonadal	
		Posterolateral	
		-Subcostal	
		-Inferior phrenic	
	9000 CO 000 CO 0	-Lumbar	
	(b) Describe the anatomy of the superior	Origin L1 level, midgut vessel, pancreas above,	
	mesenteric artery.	duodenum below, L renal v below	s.

QUESTION	ESSENTIAL KNOWLEDGE	NOTES
Identify the bony features of this x-ray	Iliac crest, Ala of ilium Sacro iliac joint, Sacrum Lumber vertebrae Pelvic brim Anterior superior iliac spin Anterior inferior iliac spine Ischial spine Ischial turberosity Obturator foramen Acetabular fossa Superior rami Inferior rami Symphysis pubis	(a) 6 Bold + 3 others to pass
Describe the anatomy of the iliopsoas muscle.	Iliopsoas – consists of Iliacus & Psoas major Psoas major: Superior attachment (a) Transverse process of lumbar vertebrae (b) Sides of vertebral bodies T12-L5 (c) Intervertebral discs T12-L5 Inferior attachment (a) Single tendon to lesser trochanter of femur Innervation (a) Anterior rami of L1, L2, L3	Name two muscles and origin and insertion
	Iliacus Superior attachment (a) Superior 2/3 of iliac fossa (b) Ala of sacrum (c) Anterior sacro-iliac ligaments Inferior attachment (a) Lesser trochanter of femur and shaft inferior to it (b) Psoas major tendon Innervation (a) Femoral nerve L2-L4	
	Identify the bony features of this x-ray Describe the anatomy of the iliopsoas	Iliac crest, Ala of ilium Sacro iliac joint, Sacrum Lumber vertebrae Pelvic brim Anterior superior iliac spin Anterior inferior iliac spine Ischial turberosity Obturator foramen Acetabular fossa Superior rami Inferior rami Symphysis pubis Describe the anatomy of the iliopsoas muscle. Iliopsoas – consists of Iliacus & Psoas major Psoas major: Superior attachment (a) Transverse process of humbar vertebrae (b) Sides of vertebral doies T12-L5 (c) Intervertebral discs T12-L5 Inferior attachment (a) Single tendon to lesser trochanter of femur Innervation (a) Anterior rami of L1, L2, L3 Iliacus Superior attachment (a) Superior 2/3 of iliac fossa (b) Ala of sacrum (c) Anterior sacro-iliac ligaments Inferior attachment (a) Lesser trochanter of femur and shaft inferior to it (b) Psoas major tendon Innervation

ACEM 2003.1 PRIMARY VIVA EXAMINATION

SUBJECT: ANATOMY

TOPIC: URINARY TRACT	NUMBER: 4

OPENING QUESTION	WHAT STRUCTURES OF THE URINARY TRACT CAN YOU IDENTIFY ON THIS PHOTOGRAPH	COMMENTS
POINTS REQUIRED	URETERS X 2	2/2
	BLADDER	
PROMPTS		
SECOND QUESTION (if needed)	DESCRIBE THE RELATIONS OF THE RIGHT URETER	4 TO PASS
POINTS REQUIRED	PSOAS	
	GONADAL VESSELS	
	GENITOFEMORAL NERVE	
	EXTERNAL/INTERNAL ILIAC ARTERY & VEIN	
PROMPTS		

COMMENTS

TOPIC 4	Abdominal Photograph	COMMENTS
QUESTIONS AND POINTS REQUIRED	Using the photograph as a guide, demonstrate the distal aorta and its branches: Inferior mesenteric Common, external and internal iliacs	All to pass
	What are the other branches of the abdominal aorta Single: coeliac, SMA Paired Visceral: renal, suprarenal, gonadal Paired Somatic: subcostal, inferior phrenic, lumbar	Coelica, SMA, renal to pass
	Can you find any of these on this photograph Gonadal	Bonus

ACEM 2005.2 PRIMARY VIVA EXAMINATION

SUBJECT: ANATOMY

TOPIC: B	one:Pel	vis
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NUMBER 3.3

•	SUBJECT: ANATOMY		
	TOPIC: Post abdo wall	NUMBER: 1-5	

OPENING QUESTION	Identify the major structures on this photograph.	COMMENTS
POINTS REQUIRED	1	10 to pass
	2	
	3	
	4	
	5	
	6	
	7	
PROMPTS		
SECOND QUESTION (if needed)	What are the relations of the right ureter on this picture	3 to pass
POINTS REOUIRED	1	

OPENING QUESTION	Identify the main features of this bone?	COMMENTS
POINTS REQUIRED	3 bones*	*essential
	Acetabulum*, greater and lesser sciatic notches, ischial tuberosity, ischial spine, pubic tubercle, ASIS, obturator foramen, iliac crest, pubic rami, SI joint	7 to pass
PROMPT	Identify the bones that make up this structure	
SECOND QUESTION	Describe the origin and course of the sciatic nerve.	
POINTS REQUIRED	11.4,5,S1,2,3* from the triangular sacral plexus form from the ant divs of these nn to eventually be the tibial portion of the sciatic while the peroneal portion comes from post divs of 1.4,5, S1,2	4/7 to pass
	2 They join in pelvis, and exit under piriformis* (line b/w PSIS & tip of coceyx) thru gtr sciatic notch*	
	3 lies on ischium over post acetabulum*, next to bone b/w isch tuber & PSIS	
	4 under glut max* in buttock b/w gtr troch & isch tuberosity	
	5 vert down with hamstrings*	
	6 upper popliteal fossa* > tibial & peroneal nn.	
PROMPTS		

COMMENTS

ACEM 2005.2 PRIMARY VIVA EXAMINATION

SUBJECT: ANATOMY

TOPIC: X-ray Abdomen	NUMBER: 1.2
TOPIC: A-ray Abdomen	NUMBER: 1.2

OPENING QUESTION	Please demonstrate the major anatomical structures on this X-ray	COMMENTS
POINTS REQUIRED	1 Stomach	4/6 to pass
	2 Large bowel: Could you please identify the parts of the large bowel?	
	3 Psoas	
	4 Liver	
	5 Kidneys	
	6 Bones: ribs, spine, pelvis, femurs	
PROMPTS	Demonstrate where you would expect to find the solid organs.	
SECOND QUESTION (if needed)	On this Xray, please demonstrate the transpyloric plane.	
POINTS REQUIRED	Passes through the lower border of L1	Needed to pass
THIRD QUESTION (if needed)	What structures are defined by this plane?	
POINTS REQUIRED	Pylorus but it is free on mesentry	5/10 to pass
	Pancreas- head, neck and body	
	Gallbladder- fundus	
	Spinal cord ends- Conus Medulla	
	Supracolic compartment lies above- Liver, spleen and fundus of stomach	
	Infracolic below- SI and Colon	
	SMA leaves Aorta	
	SV joins SMV > Portal vein	
	Hila of both kidneys	
	9th costal cartilages at lat border rectus	

ACEM 2005.2 PRIMARY VIVA EXAMINATION

SUBJECT: ANATOMY

TOPIC: Photo: Post abdominal wall ______ NUMBER: 3.4_____

OPENING OUESTION	Please identify this structure	COMMENTS
POINTS REQUIRED	Ureter	* Essential
PROMPTS		
SECOND QUESTION	Please describe the course of the ureter from the kidney to bladder.	
POINTS REQUIRED	1 Leaves hilum of kidney at level of L1-2 (slightly lower on right),	*
	2 passing down on psoas major which it leaves at the bifurcation of the common iliac artery,	
	3 crosses the SI joint at the pelvic brim	•
	4 Adheres to posterior parietal peritoneum in front of the internal iliac artery	
	5 It moves forward once reaching the ischial spine to enter the base of the bladder.	•
THIRD QUESTION POINTS	Please identify the major vascular structures immediately related to it. testicular vessels, common iliac vein, external iliac	* 4 to pass
REQUIRED	artery, internal iliac artery, IVC, aorta	
PROMPTS		
FOURTH QUESTION	Identify the places where the ureter is usually narrowed.	
	PUJ, pelvic brim, VUJ	*2/3 to pass

TOPIC	QUESTION	ESSENTIAL KNOWLEDGE	NOTES
Question 1:	 Identify the structures present in this CT of the abdomen with contrast. 	Liver, spleen, kidneys, pancreas	At least 6 to pass (1 point only for kidneys)
X-ray Abdo CT	2. Which structures are retroperitoneal?	Pancreas, kidneys, aorta, IVC	At least 3 to pass
	Demonstrate the potential spaces for fluid collection in the supine position.	Hepatorenal space Splenorenal space	Need both to pass

4. Abdo CT -	1 Idan	tify the organs and	Liver		Pass = 5/6	
					Pass = 5/6	
relations of		res seen in this CT scan (
spleen	the abo	iomen	Spleen		Prompt:	
			Aorta		Name the structure	
			IVC		you can see in this	CT
			Kidneys – L		scan	
		cribe the relationships of		to and along plane 9 and 11 ribs in left upper		
	the spl	een	quadrant abo	do		
			inferiorly	left kidney and splenic flexure colon		
			superiorly	and laterally diaphragm		
			4. medial sto	omach and pancreas		
			5. vascular s	supply splenic a. and veins lie deep		
4. Abdo CT -	1. Please i	dentify the relations of	l chest wall and	ribs		
relations of	is of the liver as seen in this CT slice 2 crus diaphr		2 crus diaphragi	n		
liver			3 kidney and ad	renal gland		
			4 IVC			
			5 duodenum			
			6 gallbladder			
	2. What is	the blood supply of	1. hepatic artery	•		
	liver		2. portal vein			
			3. 3 hepatic veir	ns .		
	3. What le	vel do you think this	l probably Ll		Prompt:	
	CT slice is		. ,		SMA arises at I	.1
3. Photo - po	st	1.Demonstrate the r	nain	Aorta		
adbo & pelvi		structures shown on	this	IMA		

CI Mice I	J tillatera		OFFICE BELOCK BY
3. Photo - post	1.Demonstrate the	main Aorta	
adbo & pelvic walls	structures shown or	this IMA	
– abdo aorta & iliac	photograph	Common iliac aa	
aa		Ext & int iliac aa	
		L Femoral a	
		IVC	
		Common iliae vv	
		L Femoral v	
		R Testicular v	
		Ureters	
		Inguinal ligg	
	2. Describe the cou	rse and	
	relations of the uret	er	

ACEM 2007.1 PRIMARY VIVA EXAMINATION

SUBJECT: ANATOMY

TOPIC: Abdo x rav/male genitalia	NUMBER:
TOPIC: Abdo x rav/male genitalia	NUMBER:

OPENING QUESTION	Outline the course of the wreters on the Xray?	COMMENTS
POINTS REQUIRED	1) Hilum of R just below, L just above L1	3/4 for pass
	2) Run just inside the tips of transverse processes of lumber vert, on surface of psoas	
	3) Over SI joint, lying on bifurcation of common iliac	
	4) To ischial spine, and thence to pubic tubercle	
PROMPTS		
SECOND QUESTION	Outline the expected course of the abdominal aorta?	2/3 to pass
	10 Entry into abdomen at T12	
	2) Left of midline	
	3) Bifurcation – just below umbilicus L4	
PROMPTS		
THIRD QUESTION (if needed)	What is the lymphatic drainage of male genitalia?	2/2 to pass
POINTS REQUIRED	Testicles- run back along test artery to para aortic nodes, lying along L2 level	
	2) Scrotal and penile skin, to inguinal nodes	
PROMPTS		

ACEM 2007.1 PRIMARY VIVA EXAMINATION

SUBJECT: ANATOMY

TOPIC: Abdomen Photo: Left kidney _____ NUMBER: Fri a.m.-4 ____

OPENING QUESTION	Identify the vascular structures adjacent to the left kidney	COMMENTS
POINTS REQUIRED	1 1=abdominal aorta	
6 of 10 to pass	2 2=coeliac trunk	
	3 3=common hepatic artery	
	4 26=splenic artery	
	5 11= left renal artery	
	6 28=superior mesenteric artery	
	7 12= left renal vein	
	8 7= IVC	
	9 6=left gonadal vein	
	10 14=left adrenal vein	
PROMPTS		
SECOND QUESTION	Identify structure 25 (ureter).	
(if needed)	Where are the narrow points of the ureter?	
POINTS REQUIRED	1 PUJ	
	2 Pelvic brim	
	3 VUJ	
PROMPTS		

ACEM 2007.2 PRIMARY VIVA EXAMINATION

SUBJECT: ANATOMY 6 September 2007 pm

TOPIC: PHOTO - ABDOMEN	NUMBER: 5
TOTAL TIME OF THE POST OF THE PARTY	TIONADEAC D

OPENING QUESTION	What are the unpaired visceral branches of the abdominal aorta?	COMMENTS
POINTS REQUIRED	1 coeliac trunk	3 for a pass
	2 superior mesenteric artery	
	3 inferior mesenteric artery	
	4	
	5	
	6	
	7	
PROMPTS		
SECOND QUESTION (if needed)	What are the branches of the coeliac trunk?	
POINTS REQUIRED	1 common hepatic artery	2/3 to pass
	2 splenic artery	
	3 left gastric artery	
	4	
	5	
	6	
PROMPTS		
THIRD QUESTION (if needed)	Demonstrate the major venous structures in this photo	
POINTS REQUIRED	LIVC	4/5 to pass
	2 right and left renal veins (23 and 12)	
	3 left adrenal vein (14)	
	4 left gonadal vein (6)	
PROMPTS		

ACEM 2007.2 PRIMARY VIVA EXAMINATION

SUBJECT: ANATOMY 7 September 2007 am

TOPIC: Photo- PELVIS ______NUMBER: 4_____

OPENING QUESTION	Identify the structures in this photo (prompt if needed)	COMMENTS
POINTS REQUIRED	1 Rectum No. 27	Need 5/8 to pass
	2 Uterus No. 6/12	
	3 Bladder No. 5	
	4 Sacrum Not numbered	
	5 Pubic symphysis No. 25	
	6 Anal canal No. 1	
	7 Cervix and vagina No. 7 and 24	
PROMPTS		
SECOND QUESTION (if needed)	Please show the potential spaces where free fluid can accumulate in the pelvis	
POINTS REQUIRED	1 rectouterine pouch (of Douglas) No. 26	Need 1 to pass
	2 vesicouterine pouch No. 34	
	3	
	4	
PROMPTS		
PROMPTS		

COMMENTS

ACEM 2008.1 PRIMARY VIVA EXAMINATION

SUBJECT: ANATOMY

TOPIC:XR AP Pelvis NUMBER: Thur am qu4

Describe the major bony features seen on this Xray	COMMENTS
llium – crest, ASIS, AIIS, acetabulum (pt), SI jt	15 features to pass
Ischium – body, ramus, tuberosity, spine,	
Pubis – symphisis, inf ramus, sup ramus, tubercle, pectineal line	
Sacrum – vertebral foramina, L5-S1 jt	
Coccys	
Femur – head, neck, gter trochanter, lesser trochanter	
Acetabulum, obturator foramen,	
Vhich bones can you see? Where do fractures usually occur?	
Demonstrate the bony attachments of the main muscles which flex the hip	
Flexors – iacus – iliac crest, fossa, ala sacrum, ant SI lig to psoas maj, soas maj – T12-L5 vert, discs, transv proc to lesser troch fem, soas min – T12 – L1 to pec line, iliopect eminence soat min – T13 – AIIS, ilium) ectineus (superior ramus of pubis) artorius (ASIS)	Iliopsoas and one other
I F S () I F	schium – body, ramus, tuberosity, spine, Pubis – symphisis, inf ramus, sup ramus, tubercle, pectineal line Gacrum – vertebral foramina, L5-S1 jt Coccys Semur – head, neck, gter trochanter, lesser trochanter Acetabulum, obturator foramen, hich bones can you see? Where do fractures usually occur? Bemonstrate the bony attachments of the main muscles hich flex the hip Flexors – hcus – iliac crest, fossa, ala sacrum, ant SI lig to psoas maj, bas maj – T12-L5 vert, discs, transv proc to lesser troch fem, bas min — T12 – L11 to pec line, iliopect eminence cuts femoris – Al1S, ilium) ctineus (superior ramus of pubis)

ACEM 2008.1 PRIMARY VIVA EXAMINATION

SUBJECT: ANATOMY

TOPIC:XR AP Pelvis NUMBER: Thur am qu4

OPENING QUESTION	Describe the major bony features seen on this Xray	COMMENTS
POINTS REQUIRED	1 llium – crest, ASIS, AIIS, acetabulum (pt), SI jt	15 features to pass
	2 Ischium – body, ramus, tuberosity, spine,	
	3 Pubis – symphisis, inf ramus, sup ramus, tubercle, pectineal line	
	4 Sacrum – vertebral foramina, L5-S1 jt	
	5 Coccys	
	6 Femur – head, neck, gter trochanter, lesser trochanter	
	7 Acetabulum, obturator foramen,	
PROMPTS	Which bones can you see? Where do fractures usually occur?	
SECOND QUESTION (if needed)	Demonstrate the important ligament attachments of the hip joint	2 out of 4 to pass
POINTS REQUIRED	l lliofemoral lig – strong, ant sup ASIS, inf intertrochanteric line	
•	$2\ {\rm Pubofemoral-med-obturator\ crest\ pub is\ inf-lat\ to\ merge\ with\ capsule\ deep\ to\ iliofemoral\ lig}$	
	3 Ischiofemoral – post, weakest of 3, from ischial pt of acetabular rim superolat'ly to femoral neck, med to base gter troch	
	4 Lig of head of femur – from acetabular notch to fovea for lig of head femur	
PROMPTS		

ACEM 2008.1 PRIMARY VIVA EXAMINATION

SUBJECT: ANATOMY

TOPIC: Post, abdo wall - major structures and course of ureters NUMBER: Thur's pm Q3

	This is a photo of the posterior abdominal wall. Please identify the major structures.	COMMENTS
POINTS REQUIRED 1	1 Psoas, iliacus	2/2
2	2 Aorta, common, ext and int iliac arteries	3/4
3	3 IVC and common and ext iliac veins	2/3
4	4 Bladder, Ureters	3/3
5	5 Gonadal vessels	+
6	6 Genitofemoral nerve	+
7	7	
PROMPTS		
(if needed)	Describe the course of the ureter from the kidney to the bladder	
POINTS REQUIRED 1	1 Retroperitoneal, 25-30cm long	
2	2 Arise from renal pelvis, ~L1 on left and L2 on right	
	3 Continue distally parallel to tp's of lumbar spine, adherent to parietal peritoneum	
4	4 Pass over pelvic brim at bifurcation of common iliac art	
	5 run on lateral wall of pelvis then at level of ischial spine curve anteromedially to enter base of bladder	
		3/5 to pass
PROMPTS		
(if needed)	What are the common sites of ureteric narrowing?	2/3
POINTS REQUIRED 1	1 Pelvoureteric junction	
2	2 crossing pelvic brim	
3	3 vessicoureteric junction	
4	4	
PROMPTS		

TOPIC	QUESTION	ESSENTIAL KNOWLEDGE	NOTES
Question 1: (Photo)	What structures can you identify in this photograph?	IVC Aorta Ureters Bladder Common iliacs Internal/ext iliacs Inguinal ligament Femoral vessels Testicular vessels Psoas If not already identified, point to ureter and	Need 6 unprompted to pass
Question 2: Can demonstrate on photo	Describe the course of the ureters, and identify the 'narrow' points.	ask, 'what is this structure?' 25 - 30 cm long run from renal hila inferiorly marked on x ray as running medial to tips of transverse processes pass over pelvic brim at bifurcation of common iliaes on lat wall of pelvis, inclining medially to insert post wall of bladder at VUJ Narrow points are atPUJ pelvic brimVUJ	4/7 and 2 narrow points to pass
Question 3: (Not related to photo)	What is the arterial blood supply of the ureter?	Arterial Renal arteries in upper portion Gonadal vessels, sometimes in upper Mid portion from branches off abd aorta Inferiorly by branches of common iliacs Venous Renal and gonadal vessels.	Renal and gonadal to pass

ACEM 2008.1 PRIMARY VIVA EXAMINATION

SUBJECT: ANATOMY

TOPIC: Blood supply of the Gut NUMBER: Friday am 5

	Dioda supply of the Gut	K. Truny um o
OPENING QUESTION	Describe the branches of the abdominal aorta that supply the gut	COMMENTS
POINTS REQUIRED	1. Coeliac trunk T12	All 3 to pass
	2. SMA L1	
	3. IMA L3	
PROMPTS		
SECOND QUESTION (if needed)	Describe the arterial supply of the stomach.	2 of 3 branches to pass
POINTS REQUIRED	lesser curvature - left gastric (from coeliac trunk)	
	lesser curvature - right gastric (from hepatic)	
	3. posterior gastric from splenic	
	4. short gastric arteries from distsl splenic	
	5. left gastro-omental (gastro-epiploic) from splenic	
	greater curvature - right gastro-omental (gastro- epiploic) from gastroduodenal (from hepatic)	
PROMPTS		
THIRD QUESTION (if needed)	Describe the arterial supply of the colon.	
POINTS REQUIRED	Superior mesenteric from aorta	
	a. Ileocolic, right colic, middle colic	
	b. Marginal artery	
	2. Inferior mesenteric artery	
	a. Left colic, sigmoid arteries,	
	b. Marginal artery	
	Anastamosis b/w Sup and Inf colic arts	

Question 2;	8.	What bones make up this structure, and	a. Pelvi	s		a.	Need all bold to pass, and
		what are their major features?		Acetab	ulum (with acetabular notch)		able to demonstrate aspects
Bone: Pelvis				Obtura	itor foramen (with obturator groove)		of bony parts
				Hium			
				0	Ala		
				0	Iliac crest		
				0			I
				0			
							1
				0			8
				Ischiai			P.
				0			
							[
			ŀ		Ischiopubic ramus		
			۰				
				0	Public symphysis		
	Question 2: Bone: Pelvis		what are their major features?	what are their major features? Bone: Pelvis what are their major features? •	what are their major features? • Acetah • Obbur • Itium o • Ischian o o o o	what are their major features? • Acetabulum (with acetabular notch) • Obturator foramen (with obturator groove) • Ilium • Ala • Iliac crest • Inferior, anterior and posterior gluteal lines • Anterior superior, enterior inferior, posterior superior and posterior inferior iliac spines • Greater sciatic notch • Ischiam • Ischia spine • Lesser sciatic notch • Ischiat tabecosity • Ischiopuble ramus • Pubis • Superior pubic ramus	what are their major features? Acetabulum (with acetabular notch) Obturator foramen (with obturator groove) Ilium Ala Iliac crest Inferior, anterior and posserior gluteal lines Anterior superior, anterior inferior, posterior superior and posterior inferior iliac spines Greater sciatic notch Ischium Ischial spine Lesser sciatic notch Ischial tuberosity Ischipuble ramus Publs Superior puble ramus

TOPIC	QUESTION	1	ESSENTIAL KNOWLEDGE	7	NOTES	7
Question 1: Xray: CT abdomen	Identify the intra-abdominal structures visible on this CT scan	vein/kidne	ta hepatis /duodenum/IVC / pancreas /splenic sys/spleen/ aorta/ coeliac trunk/ crus of / small bowel	Bole	d + 2 to pass	
	b. Describe the relations of the right kidney (see diagrams Moore page 291-293,324)	Superiorly Supero-lat Medially-l Posteriorly muscles (e Anteriorly	d by peri-nephric fat R adrenal + liver+ portal vein erally- Right lobe of liver Fsoas + vertebrae - 12 th Rib + abdo muscles(TA, IO, EO),deep bac rector spinae/quadratus lumborum) - gall bladder + duodenum + ascending colon dially-R renal vein + IVC, pancreas more	dire	rect structures related in 3 citions to pass	
Question 5: Discussion: Anatom of male urethra	Describe the parts of the male urethra. and the course of each	prostat membra perinea penis >	l urethral orifice (bladder) > Intramural tic urethra > external urethral sphincte ranous (intermediate) urethra), thru I membrane to spongy urethra in bulb o spongy(penile) in corpus spongiosun I orifice.	er (= of	Must name 3 parts	
	Where is it narrowest?	Narrow	:Membranous part and external orifice		I of 2	
	In a case of rupture of the spongy urethra, where does urine extravasate?		the penis/Scrotum/Anterior abdo OT into the thigh		Extra info	
Photo: Pelvis Major vessels, course of ureter	this photo?	- runs - cros of ti - alon isch - turn blad Aorta, left a	the hilum at PUJ inf at level of trans proc along psoas is the pelvic brim at the bifurcation the common iliac arteries/SIJ g the lateral wall of the pelvis, towards tial spines is medially to enter the base of the der and right iliac arteries, IVC, left and tins, femoral artery, femoral vein, senteric artery, gonadal vessels	Narrov	ID left and right wings in bold IVC, fem and iliacs to	
Question 4: Photo: Female Pelvis	This is a midline sagittal section pelvis. Name the major anatom structures. PROMPT: this is a female pelvis		Major: Pubic symphysis, Bladder, Va Blue marker through cervix., Externa Minor: Ovary, Tube, suspensory ligame Ureter (difficult)	al anal:	sphincter.	5 of bold to pass
	Describe the boundaries and rel the Pouch of Douglas	and relations of "Recto-uterine pouch". Inferior most extension of the peritoneal cavity, between anterior rectum and posterior uterus. Close to cervix and posterior above. Rectum, uterus, open fornix of vagina. Open above to peritoneum.				

Question 4:	Please demonstrate the major anatomica	l Aorta	At least 8 items to pass
	structures in the photo	Common iliac vessels	
Photo pelvis		Internal and external iliac veins and arteries	
		Ureters	
		Bladder	
		Psoas muscle	
	Please describe the innervation of the bladder	Presynaptic sympathetic fibers (T11-L2/3) via hypogastric plexus (Excite internal urethral sphincter) Presynaptic parasympathetic fibers (Motor to detrusor and inhibitarory to internal urethral sphincter) (S2-4) via Splanchnic nerve and inferior hypogastric nerve These synapse with post synaptic neurone on or near bladder wall Inferior to pelvic line (reflex and pain) -Visceral afferent follow P/S fibers retrograde to S2-4 spinal ganglia Superior to pelvic line (pain)- Follow sympathetic fibers retrograde to T11-L2/3 Somatic to external urethral sphincter, urethra via pudendal nerve (S2-4)	To pass: Describe the effects of sympathetic and parasympathetic stimulation on the bladder
	Please identify any nerves that innervate the bladder.	Inferior/superior hypogastric plexus, left and right hypogastric nerve Splanchmic nerve	Bonus question

TOPIC	QUESTION	ESSENTIAL KNOWLEDGE	NOTES
Question 1: (Photo)	Please indentify the intra-abdominal structures visible in this CT scan	Liver Duodenum Small bowel Spleen L and R kidney Aorta Crura of diaphragm Pancreas Splenic vein IVC If not already identified as pancreas'what is this structure?	Need 6/10 to pass
Question 2: (Not related to photo)	What are the relations of the pancreas? You will not be able to see all of them.	Posteriorlyivc, portal vein, r renal vein/artery, bile duct, sup mesenteric vessels, aorta, L2 verterbrae, L kidney and L adrenal Lateral to rightduodenum 'C' shape around head Lat to lefthilum of spieen Anteriorlystomach, peritoneum, lesser omentum, bowel, sup and inf panc-duod arteries	6 to pass