

TOPIC	QUESTIONS	KNOWLEDGE (essential in bold)	NOTES
<p>Question 1: XR: Lateral Cx-spine LOA: 1,2</p>	<p><i>Demonstrate the bony features of the Atlas and Axis.</i></p> <p><i>Describe the movements of the head on the neck.</i></p>	<p>Ant and post arch of C1. Odontoid peg (dens). Body, lamina, spinous process C2</p> <p>Rotation occurs at level C1 on C2 (gliding on lateral Atlantoaxial joints and pivoting on median Atlantoaxial joint). Flexion and extension (nodding) as well as lateral flexion and rotation occur at the atlanto-occipital joints.</p>	<p>5/6</p> <p>Both levels of articulation and basic movements described.</p>
<p>Question 2 Bone - ulna LOA: 1</p>	<p><i>i. Describe the main features of the proximal end of this bone (ulna)</i></p> <p><i>ii. How does this bone articulate with the other bones of the elbow?</i></p> <p><i>iii. What else contributes to the stability of the elbow joint?</i></p>	<p>1a) name bone and side 1b) olecranon / coronoid process/ trochlear notch, Radial notch, supinator crest, ulna tuberosity, interosseous border</p> <p>2) olecranon and coronoid process form walls of trochlear notch which articulates with the trochlear of the humerus – allows flexion and extension. On lateral side of coronoid process is the radial notch which articulates with the radial head</p> <p>3) joint capsule- weak anteriorly and posteriorly, strengthened on each side by collateral ligaments</p> <ul style="list-style-type: none"> - thickenings of fibrous layers of jt capsule. - Lateral fan-like radial collateral ligament – blends with annular ligament of radius which encircles radial head - Medial collateral ligament – triangular – consists of 3 bands – anterior (strongest) , posterior (weakest) and oblique (deepens socket for trochlear of humerus 	<p>1a) bold 1b) 3 bold + one other</p> <p>2) bold + some understanding of basic movement</p> <p>3) bold + some idea about ligaments and where they attach</p>
<p>Question 3 Model leg LOA: 1</p>	<p><i>i. Identify the muscles of the anterior compartment of the leg, describe their attachments</i></p> <p><i>ii. Actions?</i></p> <p><i>iii. What nerves supply the muscles of the anterior compartment of the leg?</i></p>	<p>Tibialis anterior – Lat condyle & sup ½ lat surface tibia & IOM -> med cuneiform & base 1st MT. Dorsiflexes ankle & inverts foot. Extensor digitorum longus - Lat condyle tibia & sup ¾ med fibula & IOM -> middle & distal phalanges lat 4 digits. Dorsiflexes ankle & extends lat 4 digits Extensor hallucis longus – middle ant fibula & IOM -> dorsum of base of distal phalanx of hallux. Dorsiflexes ankle & extends hallux. Fibularis (peroneus) tertius (– inf 1/3 ant fibula & IOM ->dorsum base 5th MT. Dorsiflexes ankle & everts foot</p> <p>Deep fibular N -> ant compartment (Tib ant L4,5 /Others L5,S1)</p>	<p>Name and identify first 3</p> <p>General principles of origin/insertion required</p>

<p>Question 4</p> <p>Photo: axilla/brachial plexus</p> <p>LOA: 1</p>	<p>i. <i>Please identify the muscles in this photo of the axilla</i></p> <p>ii. <i>Identify the components of the brachial plexus.</i></p> <p>iii. <i>What are the terminal branches of medial cord?</i></p>	<p>2 biceps, 3 coraco-brachialis, 23 subscapularis, 4 Deltoid, 9 Lat Dorsi, 24 Teres major, 10 long head triceps, 15 medial head triceps, 19 pec minor</p> <p>26 Ulnar Nerve, 13 med brachial (cutaneous n of arm), 14 med antebrachial (cutaneous n of forearm), 18 Musculocutaneous nerve, 21 Radial nerve, 1 Axillary nerve, 17 Median Nerve, 25 Thoracodorsal Nerve, 20 Posterior cord, 12 Medial Cord, 6 Lateral cord.</p> <p>Ulnar, medial cutaneous nerves of arm and forearm (medial brachial and medial ante-brachial), medial pectoral nerve, 16 medial root of median nerve</p>	<p>5 to pass</p> <p>Bold to pass</p> <p>3/5 to pass.</p>
<p>Q 5 :</p> <p>Discuss: Trigeminal Nerve (CN V)</p> <p>LOA 1</p>	<p><i>What are the main branches of the trigeminal nerve</i></p> <p><i>Describe the motor and sensory distribution of the trigeminal nerve</i></p> <p>Bonus Question: <i>Which nerve branch would you anaesthetize before repairing a lower lip laceration</i></p>	<p>Ophthalmic (V₁) : sensory Maxillary (V₂) : sensory Mandibular (V₃) : sensory & motor</p> <p>Motor</p> <ul style="list-style-type: none"> - muscles of mastication (<i>masseter, temporalis, medial pterygoid, lateral pterygoid</i>) - mylohyoid - anterior belly of digastric - tensor tympani - tensor veli palatini <p>Sensory</p> <ul style="list-style-type: none"> - skin of face and anterior scalp - eyelids / cornea / conjunctiva - nose / mucosa of nasal cavity - paranasal sinuses - ear - mouth / lip / gingiva / palate - tongue (taste to anterior 2/3) - dura of anterior & middle cranial fossa <p>Other (extra info)</p> <ul style="list-style-type: none"> - distributes postsynaptic parasympathetic fibers of head to their destinations <p>Mental nerve - as it emerges from mental foramen (terminal branch of inferior alveolar nerve, which in turn is a branch of mandibular division).</p>	<p>Bold to pass</p> <p>Motor : bold + 1 other. Extra for naming all</p> <p>Sensory : bold + 4 others</p> <p>Description by division of nerve acceptable.</p> <p>Bold to pass</p>

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<p>Q 1 : X-Ray: Chest LOA 1</p>	<p>i. <i>Outline the structures that make up the right and left cardiomedastinal borders on this X-Ray</i></p> <p>ii. <i>Which corresponding part of the lungs lie adjacent to the right and left cardiomedastinum</i></p> <p><i>Prompt : Which part of the lung forms the right heart border? etc</i></p> <p>iii. <i>Which part of the heart lies immediately behind the sternum (Prompt : What forms the anterior surface of the heart)</i></p>	<p>Right</p> <ul style="list-style-type: none"> - Right brachiocephalic vein - Superior vena cava - Right pulmonary trunk - Right atrium - Inferior vena cava <p>Left</p> <ul style="list-style-type: none"> - Left subclavian artery / left brachiocephalic vein - Aortic arch - Left pulmonary trunk - Left atrial appendage - Left ventricle <p>Right upper mediastinum</p> <ul style="list-style-type: none"> - right superior lobe <p>Right heart border</p> <ul style="list-style-type: none"> - right middle lobe <p>Left upper mediastinum</p> <ul style="list-style-type: none"> - left superior lobe <p>Left heart border</p> <ul style="list-style-type: none"> - left superior lobe (lingula segment) <p>RV (RA)</p>	<p>7/10</p> <p>2/4</p> <p>Bold to pass</p>
<p>Question 2 Bone: C1-C2 LOA: 1,2</p>	<p>i. <i>Name these bones. Demonstrate their features and describe the structures stabilising the atlantoaxial joint.</i></p> <p>ii. <i>Describe the articular surfaces and the movements that occur at the Atlanto-axial joint?</i></p>	<p>C1; ant arch, post arch, transverse process, foramen transversarium.</p> <p>C2; Body, odontoid process (dens), transverse process, spinous process.</p> <p>Articular cavity of C1, Transverse ligament, ant longit lig, cruciate ligament. + others (many)</p> <p>2 lateral atlantoaxial joints (synovial gliding and a median atlantoaxial joint (pivot type) permit side to side head motion.</p>	<p>Correct ID, 3 bony features of each,</p> <p>2/4 stabilising features to pass. Many other ligaments possible.</p> <p>Recognise 3 articulations and movement.</p>
<p>Question 3 Model: Leg LOA: 1</p>	<p>i. <i>Identify the fibularis muscles, describe their attachments. (prompt for prox or distal as required)</i></p> <p>ii. <i>? actions.</i></p>	<p>22 Fibularis longus – head & sup 2/3 lat fibula -> base 1st MT & med cuneiform. Everts foot & weak plantarflexor of ankle.</p> <p>23 Fibularis brevis – inf 2/3 lat fibula -> dorsal surface of tuberosity lat on base 5th MT. Everts foot & weak plantarflexor of ankle.</p> <p>Fibularis tertius – inf 1/3 ant fibula & IOM -> dorsum base of 5th MT. Dorsiflexes ankle & aids eversion of foot.</p>	<p>2 muscles in bold prompt for tertius?</p>

<p>Question 3 cont'd</p> <p>Model: Leg</p> <p>LOA: 1</p>	<p><i>iii. What nerves supply the fibularis muscles?</i></p>	<p>Fibularis longus/brevis – Superficial fibular N (L5, S1, S2) Fibularis tertius – Deep fibular N (L5, S1)</p>	<p>Bold to pass</p>										
<p>Question 4</p> <p>Photo: Abdomen</p> <p>LOA: 2</p>	<p><i>i. What structures can you identify on this photograph?</i></p> <p><i>ii. Describe the course of the ureters, and identify the “narrow” points</i></p> <p><i>iii. What is the arterial blood supply of the ureter?</i></p>	<table border="0"> <tr> <td>IVC</td> <td>Aorta</td> </tr> <tr> <td>Ureters</td> <td>Bladder</td> </tr> <tr> <td>Common iliacs</td> <td>Int/Ext iliac</td> </tr> <tr> <td>Inguinal ligament</td> <td>Femoral vessels</td> </tr> <tr> <td>Testicular vessels</td> <td>Psoas</td> </tr> </table> <p>If not already identified, point to ureter and ask “what is this structure?”</p> <p>25-30 cm long Run from renal hilar inferiorly Marked on Xray as running medial to tips of transverse processes Pass over pelvic brim at bifurcation of common iliacs On lateral wall of pelvis inclining medially to insert post wall of bladder at VUJ Narrow points are PUJ, pelvic brim, VUJ</p> <p>Arterial – renal arteries in upper portion Gonadal vessels sometimes in upper Midportion from branches off abdom aorta Inferiorly by branches of common iliacs</p>	IVC	Aorta	Ureters	Bladder	Common iliacs	Int/Ext iliac	Inguinal ligament	Femoral vessels	Testicular vessels	Psoas	<p>Need 6 unprompted to pass</p> <p>4/7 and 2 narrow points to pass</p> <p>Renal and gonadal to pass</p>
IVC	Aorta												
Ureters	Bladder												
Common iliacs	Int/Ext iliac												
Inguinal ligament	Femoral vessels												
Testicular vessels	Psoas												
<p>Question 5</p> <p>Discussion: Sensation Ring finger</p> <p>LOA: 1</p>	<p><i>i. Please describe the sensory innervations of the hand.</i></p> <p><i>ii. What dermatomes are represented on the hand</i></p> <p><i>iii. What are the landmarks of the median nerve at the wrist?</i></p>	<p>Ulnar nerve: ulnar 1.5 digits Med nerve: radial 3.5, with wrap over onto dorsum Rad nerve: dorsum 2.5</p> <p>C6 radial side, C7 middle, C8ulnar side</p> <p>FCR and Palm long at prox wrist crease.</p>	<p>Need complete description to pass</p> <p>3 to pass</p>										

