

Anatomy Of The Hand Quiz Questions and Answers PDF

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Which artery is primarily responsible for supplying blood to the thumb?		
Ulnar arteryRadil artery ✓Brachi arteryAxillary artery		
The artery primarily responsible for supplying blood to the thumb is the radial artery. It branches off from the brachIAL artery and provides oxygenated blood to the lateral aspect of the hand, including the thumb.		
Which bone is located in the proximal row of the carpal bones?		
 Trapezium Scaphoid ✓ Capitate Hamate		
The proximal row of the carpal bones includes the scaphoid, lunate, triquetrum, and pisiform. These bones are located closest to the forearm and play a crucial role in wrist movement and stability.		
Explain how the structure of the hand allows for both strength and dexterity in its movements.		

The hand's design includes a strong skeletal framework with the metacarpals and phalanges providing stability, while the presence of multiple joints and tendons allows for a wide range of motion and fine motor skills, facilitating both strength in gripping and dexterity in manipulation.

Which of the following are common symptoms of carpal tunnel syndrome? (Select all that apply)		
Pain in Weakne	the wrist ✓ ess in the little finger g in the index finger ✓	
fingers, repetitiv	on symptoms of carpal tunnel syndrome include numbness, tingling, and pain in the hand and particularly the thumb, index, and middle fingers. These symptoms often worsen at night or with we hand movements. The role of the radial and ulnar arteries in the vascular supply of the hand.	
Explain th	e role of the radial and diffal afteries in the vascular supply of the fland.	
	//	
of the h	dial artery runs along the thumb side of the forearm and supplies blood to the lateral side hand, while the ulnar artery runs along the little finger side and supplies blood to the side of the hand. Together, they form the superficial and deep palmar arches, ensuring ate blood flow to the hand and fingers.	
Which mu	scle is part of the thenar group?	
○ Flexor	or digiti minimi pollicis brevis ✓ ens digiti minimi is longus	
The the movem	enar group consists of muscles located at the base of the thumb, primarily responsible for its ent and opposition. Key muscles in this group include the abductor pollicis brevis, flexor pollicis and opponents pollicis	



What are the potential consequences of an untreated scaphoid fracture?		
The potential consequences of an untreated scaphoid fracture include nonunion of the bone, avascular necrosis, chronic pain, and impaired wrist function.		
Describe the anatomical structure and function of the metacarpophalangeal joints.		
The metacarpophalangeal joints are synovially structured joints that connect the metacarpal bones to the proximal phalanges, allowing for a range of movements including flexions, extensions, and some degree of abduction and adduction.		
What are the functions of the ulnar nerve in the hand? (Select all that apply)		
☐ Innervates the thenar muscles		
 □ Provides sensation to the little finger ✓ □ Controls the hypothenar muscles ✓ □ Supplies the lateral two lumbricals 		
The ulnar nerve is responsible for the sensation in the little finger and half of the ring finger, as well as controlling the intrinsic muscles of the hand, which are crucial for fine motor skills and grip strength.		
Which of the following are intrinsic muscles of the hand? (Select all that apply)		
☐ Lumbricals ✓		
☐ Flexor digitorum profundus		



☐ Inte	erossei ✓		
☐ Ab	ductor pollicis brevis ✓		
	e intrinsic muscles of the hand include the thenar muscles, hypothenar muscles, lumbricals, and erossei. These muscles are responsible for fine motor movements and dexterity of the fingers.		
Discuss the differences between the intrinsic and extrinsic muscles of the hand.			
mo	rinsic muscles include the lumbricals and interossei, which facilitate precise finger ovements, whereas extrinsic muscles, such as the flexor and extensor muscles, are sponsible for larger movements and grip strength.		
Which	n carpal bone is most commonly fractured?		
○ Lur			
O Pis	aphoid √		
_	pezoid		
	e scaphoid bone is the most commonly fractured carpal bone, often due to falls on an outstretched nd. This injury can lead to complications if not properly diagnosed and treated.		
Which	n structures pass through the carpal tunnel? (Select all that apply)		
□ Ме	dian nerve ✓		
	nar artery		
	exor digitorum superficialis tendons ✓ exor pollicis longus tendon ✓		
_			
	e carpal tunnel contains several important structures, including the median nerve and the flexor dons of the fingers. These structures are crucial for hand movement and sensation.		

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Outline the pathway and function of the median nerve in the hand.



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The median nerve arises from the medial and lateral cords of the brachical plexus, the arm, enters the hand through the carpal tunnel, and innervates the thenar musc lateral two lumbricals, providing sensation to the palmar side of the thumb, index, half of the ring finger.	cles and the	
Which nerve is most commonly associated with carpal tunnel syndrome?		
 Ulnar nerve Radical nerve Median nerve ✓ Axillary nerve 		
Carpal tunnel syndrome is primarily associated with the median nerve, which becomes continuous the carpal tunnel of the wrist, leading to symptoms such as pain, numbness, and tingling		
What type of joint is the metacarpophalangeal joint?		
 Hinge joint Ball and socket joint Saddle joint Condyloid joint ✓ 		
The metacarpophalangeal joint, commonly known as the MCP joint, is classified as a syn specifically a condyloid joint. This type of joint allows for movement in two planes, enabling extension, abduction, and adduction of the fingers.		
Which bones form the distal row of the carpal bones? (Select all that apply)		
 □ Trapezium ✓ □ Lunate □ Capitate ✓ □ Hamate ✓ 		



The distal row of the carpal bones consists of the trapezium, trapezoid, capitate, and hamate. These bones are located closest to the metacarpals in the wrist.

WI	nat is the primary function of the flexor retinaculum?			
0	Stabilize the wrist joint Form the carpal tunnel ✓ Protect the ulnar nerve Connect the phalanges			
	The flexor retinaculum is a fibrous band that serves to hold the flexor tendons in place as they pass from the forearm into the hand, preventing bowstring effects during movement.			
How many phalanges are present in one human hand?				
	 10 12 14 ✓ 16 Each human hand contains 14 phalanges, which are the bones in the fingers. This includes three phalanges in each of the four fingers and two in the thumb. 			
WI	nich of the following are types of grips performed by the hand? (Select all that apply)			
	Power grip ✓			
	Precision grip ✓			
	Hook grip ✓			
	Ball grip			
	The types of grips performed by the hand include various classifications such as power grips and precision grips, which are essential for different tasks and activities.			