

Q1) all of the following antibiotics are used for treatment of acne except:-

- a - clindamycin.
- b - erythromycin.
- c - metronidazole.

- d - sodium sulfacetamide.
- e - neomycin.

Q2) which of the following is restricted for severe cystic acne resistant to standard treatment:-

→ Isotretinoin.

Q3) which of the following is an extract of Mandragora officinarum, and is cytotoxic

→ Podophyllum Resin.

Q4) all of the following are true about tubocurarine except:-

- a - a poison extracted from south america.
- b - used in hunting animals.
- c - eating animals' meat hunted by it. cause muscle weakness and paralysis.
- d - it's an antagonist for nicotinic receptor.
- e - its action can be reversed by anticholinesterase.

Q5) all of the following are true about Osteoporosis except:

- a - increase bone fracture.
- b - decrease bone mineralization.
- c - decrease OPG activity.
- d - estrogen loss result in increase production of TNF.

Q6) which of the following, the pathognomonic histologic feature of which is mosaic pattern of lamellar bone:-

→ Paget disease.

→ Paget

Q7) the most common agent that cause acute Osteomyelitis is.

a - *Staphylococcus aureus*.

a - *Staphylococcus aureus*

b - *E. coli*

b - *E. coli*

c - *Salmonella*.

c - *Salmonella*

d - anaerobes.

d - anaerobes

e - group B streptococci.

e - group B streptococci

Q8) a 15 year old boy with localized pain in the proximal tibia

that is relieved by aspirin. microscopic examination revealed a trabeculae of woven bone surrounded by osteoblasts. and X-ray image showed a central radiolucent area.

Then the boy have...

→ Osteoid Osteomas.

Q9) a 15 year old boy with a soft tissue mass projecting in his proximal fibra. the mass have osteoid, cartilage, and fibroblastic tissue in varying amounts. Radiograph show a large destructive

mixed lytic and blastic mass with indistinct infiltrating margins.

Then the boy have...

→ Osteosarcoma.

Q10) which of the following is miss linked :-

- a- Osteochondroma  $\rightarrow$  both EXT gene inactive.
- b- maffucci syndrome  $\rightarrow$  multiple chondromas.
- c- chondrosarcoma  $\rightarrow$  pelvis.
- d- chondroma  $\rightarrow$  head.
- e- ---.

Q11) all about giant-cell tumor are true except:-

- a- for individual of 10-20 years.
- b- locally aggressive.
- c- rare metastasize.
- d- purely lytic.
- e- in the epiphysis of long bone.

Q12) metastatic "disease" that is blastic, is commonly from:-

- a- lung
- b- melanoma.
- c- breast.
- d- prostate.
- e- kidney.

Q13). which ~~happens~~ happen through firing stage of action potential:-

- a-  $\text{Na}^+$  diffusion is the lowest of all times.
- b-  $\text{K}^+$  diffusion is the highest of all times.
- c- represent absolute refractory period.
- d-  $\text{Na}^+$  channels are inactive.
- e- more than one of the above.

Q14) In a skeletal muscle, all happen as a result of binding of Ach to its receptor except:-

- a- activation of chemical gated  $\text{Na}^+$  channels.
- b- " " voltage "  $\text{Na}^+$  channels.
- c- " " chemical "  $\text{K}^+$  "
- d- " " voltage "  $\text{K}^+$  "
- e- depolarization of sarcomere.

Q15) about movement of AP through nerve fibers, which is true:-

- a- The velocity is the highest in myelinated large fibers.
- b- The velocity increase, as diameter decrease.
- c- continuous conduction is faster than saltatory conduction.
- d- generation of AP happens by  $\text{Na}^+$  channels covered by myelin sheath
- e- more than one of the above.

Q16) All are true about muscle summation except:-

- a- tetanization is a wave summation.
- b- motor unit summation happens by increase number of muscle fibers involved.
- c- Treppen phenomena (Staircase) is a wave summation.
- d- increase amplitude of contraction done by increase number of muscle fibers involved.
- e- wave summation happens as excitation happens while muscle is in simple muscle twitch.

Tuberculous	Lepromatous
Mild	Severe
↓ AFB	↑ AFB
Lepromin +ve n. sens	ne X n. sens.

Q17) all are true about exfoliative toxin except

- a- produced by few strains of staph. aureus.
- b- .. . streptococcus pyogenes.
- c- Scalded skin syndrome.
- d- blisters containing fluids.
- e- produce multi-system kidney failure

Q18) which of the following is associated with cutaneous black lesions:-

⇒ *Bacillus anthracis*

Q19) which of the following can infect nails :-

- a- *Candida*.
- b- *Trichophyton*.
- c- ... coccus
- d- (a + b)
- e- all (a + b + c).

Q20) all are true about Varicella except:-

- a- primary Virema disseminate virus to RES.
- b- secondary " " " target organs.
- c- antibodies are produced before appearance of skin rash.
- d- reach sensory ganglia by nerves or blood stream.
- e- ...

Q21) papilloma and molluscum contagiosum share which of the following.

- a- site of replication.
- b- Tissue tropism.
- c- severity of infection.
- d- ...
- e- ....

Q22) which of the following is true:-

- a- HHV-6 cause mouth-foot-mouth disease.
- b- west nile virus result in epidemic in the form of myoclonus.
- c- measles replicate locally in lymph nodes.
- d- epidermolyticus Verruciformis infect immature erythrocytes
- e- ---

Q23). ---- micro- aeni

about measles !!

Q24) about anterior fontanel

- a- diamond shaped.
- b- close at 18 month age.
- c- located between metopic, coronal, and lambdoid suture.
- d- superior to <sup>superior</sup> sagittal sinuts.
- e- ---

Q25). In relation to sternomastoid, which is wrong:-

- a- nerve supply if pass deep to prevertebral fascia.
- b- rotation of face to opposite side.
- c- lesser occipital nerve move on its posterior border.
- d- invested in investing cervical fascia.
- e- external jugular vein is superficial to it.

Q26) about expression muscles, which is wrong:-

- a- corrugator supercilii cause transverse wrinkles.
- b- paralysis of Orbicularis Oculi cause narrowing palpebral fissure
- c- middle fibers of Buccinator attached to modiolos.
- d- paralysis of Buccinator will cause food to accumulate in vestibule of mouth.

Q27) about cutaneous innervation, which is wrong:-

- a- prominence of cheek : maxillary nerve.
- b- upper lip : frontal.
- c- angle of mandible : greater auricular.
- d- bridge of nose : ophthalmic nerve.

Q28) ulcer of median part of upper lip will cause enlargement of:

- a- Submandibular lymph nodes.
- b- Submental " "
- c- preauricular " "
- d- occipital " "
- e- all of the above.

Q29) The muscle that separate between carotid and muscular triangle is  
⇒ omohyoid.

Q30) all enter through sphenoid bone except:-

- a- mandibular nerve.
- b- maxillary nerve.
- c- internal carotid artery.
- d- optic nerve.
- e- ophthalmic artery.

Q31) all are branch of first part of maxillary artery except:-

- a- middle meningeal.
- b- inferior alveolar.
- c- accessory meningeal.
- d- deep auricular.
- e- greater palatine.

Q32) about Cavernous sinuses, which is wrong.

- a- nerve supplying lateral rectus of eye found on its lateral wall.
- b- receive anteriorly ophthalmic veins.
- c- communicate with pterygopalatine plexus through oval and (acerion).
- d- sphenoidal air sinuses are found medial and inferior to it.
- e- ---

Q33)

- a- elevation of upper eyelid, due to stress condition.
- b- ---
- c- ---
- d- ---
- e- ---

Q34) adduction of eye ball is done by  
→ medial rectus.

Q35) about lateral pterygoid muscle, which is wrong:-

- a- inserted into TMJ capsule and mandibular neck.
- b- Lingual and inferior alveolar appear from its lower border.
- c- medial to mandibular nerve.
- d- depress the mandible.
- e- attached to greater wing of sphenoid.

Q36) about Vertebral Column, which is true:-

- a- thoracic region can do rotation.
- b- rib 4 articulate with vertebral 5 and 6.
- c- ---
- d- ---
- e- ---

Q37 ... Q40 → which is mismatched.

I will mention what I remember and put if true or false :-

- Lumber puncer : Level of L3, L5 (✓).
- foramenium transversarium of C6 : vertebral artery (✓).
- posterior longitudinal ligament : inside vertebral canal (✓).
- infrahyoid muscle : C1, 2, 3 nerves (✓).
- common carotid bifurcate : C4, C5 (X).
- transverse cervical nerve : anterior aspect of neck (✓).
- lacrimal gland : optic nerve (X).
- pterion : middle meningeal artery. (✓) :
- median atlantoaxial joint : plane synovial (X).
- pain in lower molars : maxillary nerve (X).
- chorda tympani : lingual nerve (✓).
- otic ganglia : behind neck of mandible (✓).

1/alpha 2009 2010

11

Musculoskeletal System  
Midterm

1) Max. simple muscle twitch:-

- a.  $\text{Na}^+$  channels
- b.  $\text{K}^+$  channels
- c.  $\text{Ca}^{2+}$  channels

~~✓~~ 2 of them are correct

c. Sarcomere is shorter than its. on rest state.

2) ~~PP~~ <sup>HPV</sup>  $\neq$  Papilloma.  $\rightarrow$  similar in:

~~✓~~ a. Pathogenesis

b. Host range. --

3) HSU.  $\rightarrow$  not correct :-

a. maculo-papular

b. Vesicles. ---

~~✓~~ C. Bulloving appearance of chromaffic neurocytes <sup>in nucleus</sup>

4) Osteoblastic metastasis into lumbar sacral. Caused from

~~uterine~~

a. ~~breast~~ Ca.

b. Giant cell tumor.

c. Lung Cancer.

~~✓~~ d. prostate Cancer

⑤ Glutar free :-

Dermat Herpetic

⑥ Morphine → ketorolac.

⑦ Aspirin →  
a. small dose - antiplatelet sig.  
b. ketosis.  
c. selective COX-2

⑧ Colchicine → tubular polymerization.

⑨ Not suitable combination →

a. Gold —

b. ↑ Blood pressure.

⑩ Not suitable →

~~Refuse of histamine~~ → Paracetamol  
Autonomic ganglion

⑪ most Common site of osteoma :-

a. Pelvic bone.

b. skull bone.

c. small bone in feet & hands

d. Femoral bone.

⑫ Unna's — dermal edema.

⑬ Diffused lymphangioma →  
Can tolerate B.T

reduce cell mediated

immunition → anesthetize

14) Varicella Virus. → not Correct

a. 2 phases to spread.

b. induce A.b's. in late stage. (not on the onset of pancytopenia)

c.

15) The prior. way that occur in skeletal muscle contraction.

Release of  $\text{Ca}^{2+}$  from ER.

16) Solitary summation:-

a. unmyelinated fibers

b. ↑ velocity.

c. jumping between nodes of Ranvier.

✗ 2 of the above correct.

17) Testosterone activation (convert to active form)-

Acrylic Acid

18) not ~~related~~ <sup>related</sup> to activity of PABA.

✗ a. ↓ melanogenesis.

b. Lymphoma

(19) The highest conc. of IC<sup>+</sup> in :-  
falling state. ✓

(20) ~~NSAID~~ - Coxib — Cox-2 inhibitor.  
Cause Cardiovascular disease.

(21) Osteosarcoma - most common  
x (20-30) yrs. old.  
(10-20) yrs old. ✓

(22) Related to Denervation Atrophy

(23) Not Correct. ~~a middle of arm~~ Brachial A.  
a. Lat. to median N.  
x. Lat. to Biceps.  
c. Good pulsation over the arm.

(24) Ins. of Coracobrachialis - not correct.

- x. Musculocutaneous pierce deep fascia  
b. Median N. from lat to Brachial A. humeral side  
c. Ulnar N. pier Deep fascia  
d. Radial U. deep fascia

(25) Cut wound on the wrist → on median N.

Side. — 2 tendons. :-

a. Palmaris Longus & Flexor Carpi Radialis

b. Flexor Carpi Radialis & Superficialis

c. Superficialis & Profundus.

(a + b)

e. All of the above.

(26) Damage of oculomotor N. → not correct:

eye. down & out.

(27) Candida Albicans :-

a. ~~Nails~~ Nails

b. Skin

c. Hair

(a + b)

e. All of the above.

(28) — spiroasis — ↗ not correct

a. Cause fever ↑ super. fever.

b. Phosphatase

?  ~~Basophils~~ Basophils

(29) Best of Proprietary acne -

Tetracycline

(30) Group B. Hemolytic - not true

a. Catalase +ve? or coagulase.

b. Pyrogenic

c. necrotic vesicle

d. cellulitis

(31) Salmonella — SCD

(32) ↑ Alkaline phosphatase → ↑ osteoblastic activity

(33) not correct in Relation to summation

a. ↑ muscle — ↑ contraction

b. tetany — motor unit summation

c. stimuli — 2nd one must occur ~~near~~ within S<sub>1</sub>  
(S<sub>1</sub>) (S<sub>2</sub>)

d. Motor unit summation → ↑ Amplitude.

e. staircase

(34) St. basale : - not Correl. (7)

- a. Basophilic.
- b. Desmosome & Hemidesmosa
- X. Phagocytic effect
- d. Nerve ending.

(35) Not suitable Combination.

Cervical Rib — ~~C<sub>8</sub>, T<sub>1</sub>~~ C<sub>7</sub>

(36) Not suitable combination.

Plexus of elbow — C<sub>7,8</sub>.

(37) subacromial Bursitis : not Correl.

- 1. For test.
- 2.

(38) Trapezius — not Correl.

a. test by abduction. & we Compress against Ph  
X. Rotation on Shoulder Joint

(39) Bicephal. Groove → Not innervated by -

- a. Musculocutaneous N.
- X. Upper subscapular.
- c. lower subscapular.
- d. Thoracodorsal N.  
→ Lat Dorsi. N.

40) Not Related to Head / Face -  
a. Flavours or U.V. light

- b. Can't transmit disease  
c. Suck on blood.

41) Can transmit ~~in~~ between adult? ~~child~~

- c. school children

41) Out cropping muscle. <sup>(lat. & post.)</sup> ~~not Correct~~

3 muscle innervated from deep branch of Rami

42) Embryo — cleft lip. — not Correct

formed from connection between front - nasal

of Maxillary.

43) Stye → not correct  
moberi ?

44) ? Nasal boil →

43) ~~St. basalis not correct~~  
~~Receptacle~~

45) not correct → non-Purpuric

3) not Correct →

~~Apocrine~~ — Cholinergic.

47) not Correct — Combination

Ulnar N. + Pnf ulnar — collateral A.

48) B laudens. — ~~B.B.B.~~

Ahaeoma.

49) Rubella →

Diagnosis is important as pts subclinical

50) Not Correct →

Radial A. above Flexor Retinaculum

51) Danthrolene — Ryzenedine R-

52) Staph. aureus → ~~a.~~ as species on P. Vancomycin

Fracture ~~physio~~  $\rightarrow$  5

MRCO  $\rightarrow$  pulse 30  $\rightarrow$  1  
NLAD 30  $\xrightarrow{\text{pulse}}$  2  
Gout.

Physio  $\rightarrow$  2

Pharma  $\rightarrow$  3

patho  $\rightarrow$  9

قوموا باربعا بالجدل اجابوا ..... لا تقصروا عن همة القراء

١٨

..... Question 5. & .....

- ..... 1) one of the following statements about Na<sup>+</sup> channels  
 .... Not true is .....  
 .... a. voltage-dependent channels are activated at a higher voltage than K<sup>+</sup> channel during AP .....  
 .... b. chemical gated channels can be activated by N.T. &  
 .... c. voltage-dependent channels are closed and not capable of opening during the falling phase .....  
 .... d. They transform to the ~~closed~~ state of closed and open the +ve after potential stage .....  
 .... e. voltage-dependent channels become closed at threshold potential .....  
 ..... *(Note)*

- ..... 2) The highest conc. of K<sup>+</sup> in plasma membrane during is  
 .... a. during .....  
 .... b. falling phase .....  
 .... c. threshold .....  
 .... d. Before threshold .....  
 .... e. During firing stage .....  
 .... f. At the peak of AP .....  
 ..... i. ....

- ..... 3) One of the following regarding saltatory conduction in nerve fibre is correct  
 .... a. like plate in myelinated nerve fibre .....  
 .... b. Higher velocity of conduction due to the fact we are skipping certain parts of membrane .....  
 .... c. Involve jumping of signal from pre-synaptic membrane to post-syn membrane .....

قوموا أقرعوا بالجد أيواب العلا ..... لا تتصروا عن همة القراء

d. Refer to the speed of the AP from one shunen cell to another shunen cells.

4). At N-M junction the release of NT from end terminal

a. Results after the activation of ~~receptor~~ depending  $Ca^{2+}$  located at the terminal buttons ~~(synapses)~~

b. Induce changes in the permeability of SK muscles membrane to  $K^+$  ions

c. Activate the diffusion of  $Na^+$  at the muscle membrane resulting in endplate potential

d. Non of the above

e. Both a & c

5. Relaxation in smooth muscles:

a. Inactivation of phosphodiesterase enzyme

b. Dephosphorylation of myosin

c. Formation of  $Ca^{2+}$ -calmodulin complex

d. Activation of Tyrosine Kinase

e. Non of the above

answers: 1) e 2) a 3) b 4) c 5) b

Done By:

Omar Abu Shud

## Musculoskeletal lab

### Exam

22 anatomy lab.  
3 physio lab  
3 skin lab  
2 patho lab.

### Patho Lab

Q1) a irregular dark red-black hemorrhagic mass in a bone  $\rightarrow$  giant cell tumor

[Picture of hemorrhagic tumor in slides]

Q2) a microscopic picture , what is the tumor  
 $\Rightarrow$  Osteosarcoma

### Skin Lab

Q3) a picture of stratum granulosum, which of the following is incorrect :-

- a - high sulfur content .
- b - responsible for keratinization .
- c - important for skin color
- d - granules embedded in keratin .

Q4) a picture of stratum spinosum, which is incorrect :-

- a - have tight junctions .
- b - have keratin content less than stratum basal .
- c - lamellar bodies appear in its upper layers .
- d - ...

Q5) a picture of sebaceous gland, which is incorrect :-

- a - holocrine gland .
- b - function affected by sex hormones .
- c - empty on hair follicle .
- d - ... epididymal surface .

## physio lab

Q6) If you gave two stimuli equal in magnitude with another stimulus previously given to muscle, in which of the following the muscle will not respond:-

- a - at very early latent period.
- b - at early relaxation period.
- c - at late contraction period
- d - at late latent period

Q7) If a heated armchair having a muscle then gave a stimulus, what is the effect?

- a - contraction with high force. Then normal.
- b - " " " " " " " " " " " "
- c - no effect.
- d - " "

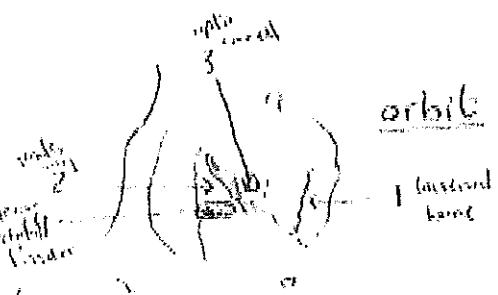
Q8) Latent period is

→ The time between giving a stimulus and initiation of muscle contraction.

## Anatomy (Part 2)

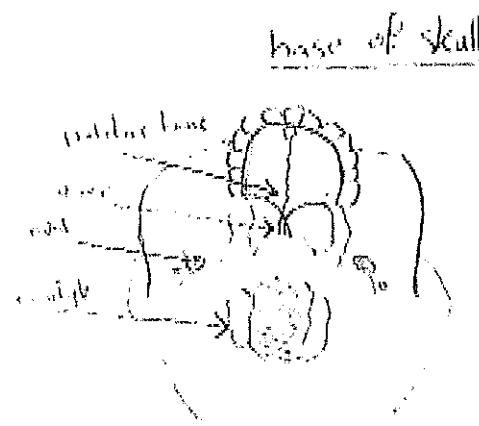
Q9) which is wrong?

- a - 1 is lacrimal bone
- b - 2 is greater wing of sphenoid.
- c - Foramen from which ophthalmic artery enters.
- d - 4 is foramen from which maxillary nerve enters.



Q10) which of the following is not pointed in picture :-

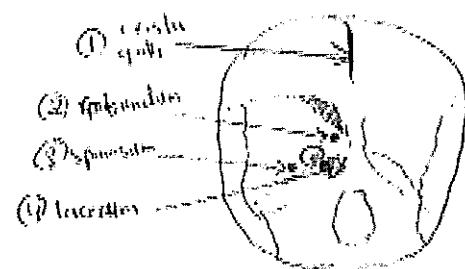
- a - Palatine bone
- b - Vomer.
- c - Foramen for exit of mandibular nerve
- d - Area for articulation of the upper teeth of the skull



Q11) which is wrong?

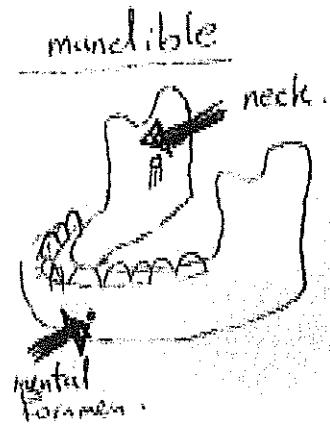
- a - 1 is attachment of false cerebellum
- b - 2 is exit of mandibular nerve
- c - 3 is artery of middle meningeal artery
- d - 4 is entry of internal carotid artery.

normal brainstem  
inference

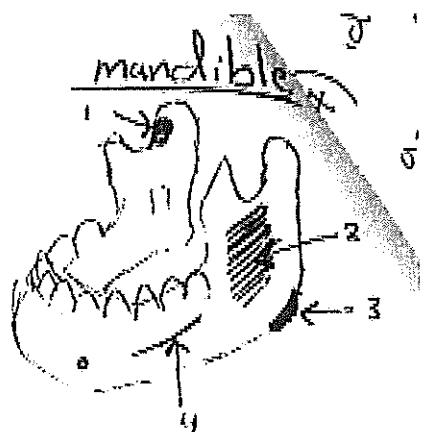


Q12) which is not related to the pointed structures:-

- a - auriculo-temporal nerve.
- b - maxillary artery.
- c - mental artery.
- d - inferior alveolar artery.

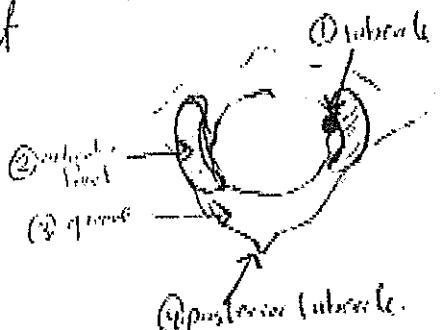


- Q13) which is wrong
- 1 is attachment of medial pterygoid
  - 2 is .., masseter.
  - 3 is stylomandibular ligament.
  - 4 is buccinator.



- Q14) which is wrong
- 1 is attachment of transverse ligament
  - 2 is related to synovial pivot joint
  - 3 is .., 3rd part of vertebral canal (P.v.)
  - 4 is attached to ligamentum nuchae.

atlas superior view



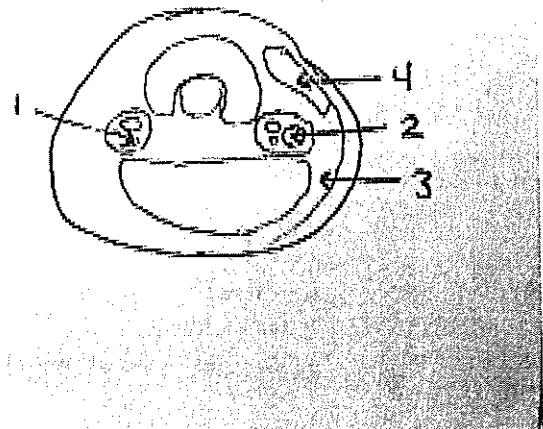
- Q15) which is not pointed in the picture
- sternomastoid muscle
  - masseter
  - anterior belly of digastric
  - sterno hyoid.

muscle of neck (lateral view)

netter plate 26

- Q16) which is wrong
- 1 is vagus nerve.
  - 2 is carotid artery.
  - 3 is posterior triangle.
  - 4 is sternomastoid muscle.

Cross section in neck



Q7) Identify the following vertebrae

- a - ...lumbar
- b - ...cervical.
- c - typical thoracic
- d - first thoracic

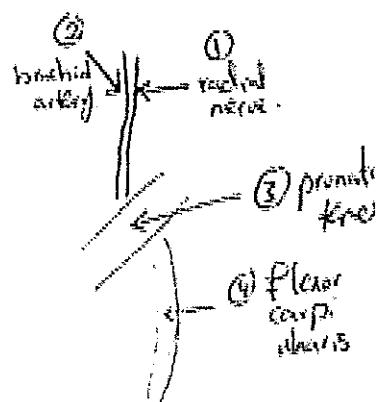
Netter  
plate 151

[T6 picture]

Q18) which is wrong.

- a - 1 is ulnar nerve.
- b - 2 is brachial artery.
- c - 3 is pronator teres.
- d - 4 is flexor carpi ulnaris.

Netter plate 434



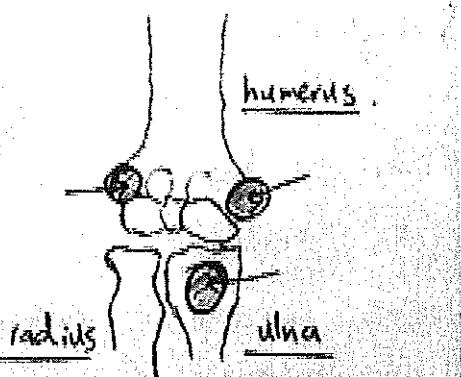
Q19) which is not pointed in the picture

- a - teres minor.
- b - axillary nerve.
- c - radial nerve.
- d - long head of triceps

Netter plate 465

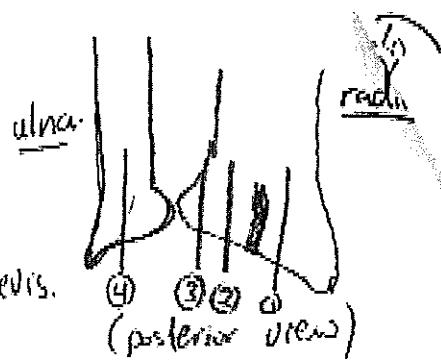
Q20) which is not attached to the pointed structures:-

- a - brachialis.
- b - flexor carpi ulnaris.
- c - extensor digitorum.
- d - supinator.



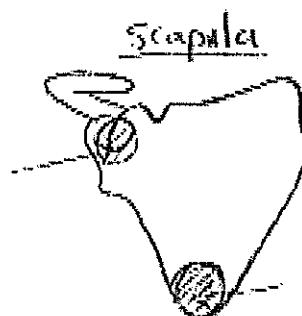
Q21) a question about structures in the compartments below extensor retinaculum :-  
which is wrong :-

- a - 1 is extensor carpi radialis longus and brevis.
- b - 2 is extensor pollicis longus.
- c - 3 is extensor digiti minimi
- d - 4 is extensor carpi ulnaris.



Q22) which is not related to the pointed structures.-

- a - serratus anterior
- b - pectoralis minor
- c - coracobrachialis.
- d - deltoid



Q23) which is wrong

- a - 1 is extensor indicis
- b - 2 is extensor pollicis brevis.
- c - 3 is extensor pollicis longus → it was pointed to abductor pollicis longus.
- d - 4 is extensor carpi ulnaris

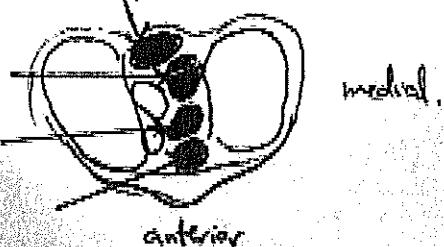
Netter plate 429 (right)

Q24) which is not pointed in the picture.

- a - anterior meniscus
- b - anterior horn of medial meniscus.
- c - posterior meniscus.
- d - posterior horn of lateral meniscus.

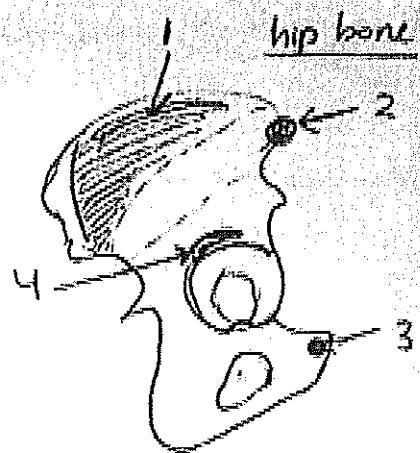
Netter plate 496

Lower picture  
posterior



Q25) which is wrong :-

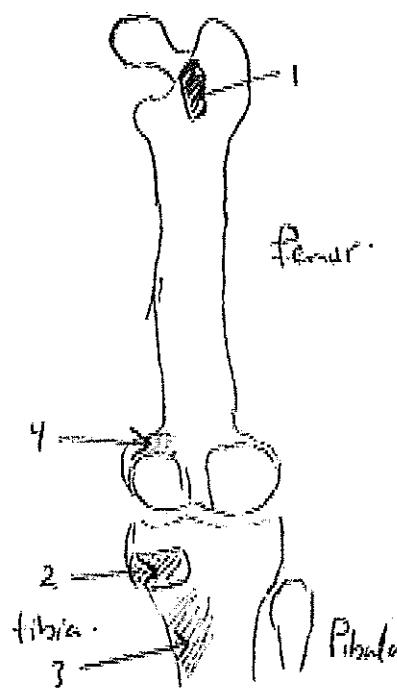
- a- 1 is gluteus maximus.
- b- 2 is iliofemoral ligament
- c- 3 is rectus femoris
- d- 4 is adductor brevis.



Q26) which is wrong :-

- a- 1 is quadratus femoris
- b- 2 is semitendinosus.
- c- 3 is popliteus.
- d- 4 is medial head of gastrocnemius

[posterior view]



Q27) which is wrong :-

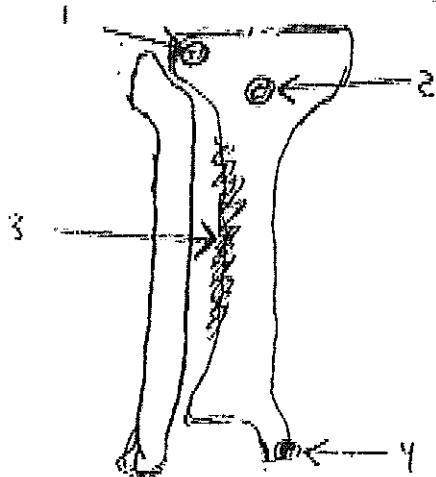
- a- 1 is short head of biceps. → was pointed to long head.
- b- 2 is piriformis.
- c- 3 is gluteus minimus.
- d- 4 is popliteal artery.

Netter plate 490

(Q28) which is wrong

- a - 1 is tibial collateral ligament
- b - 2 is ligamentum patellae
- c - 3 is tibialis anterior
- d - 4 is deltoid ligament.

anterior view



(Q29) which is wrong

- a - 1 is superficial peroneal nerve
- b - 2 is dorsalis pedis artery
- c - 3 is tendon of extensor digitorum longus
- d - 4 is tendon of extensor hallucis longus

netter plate 518

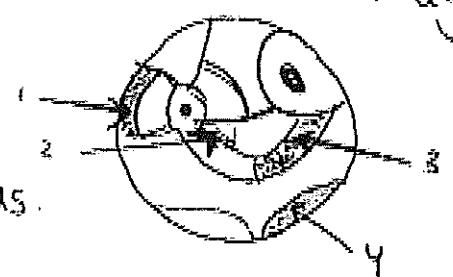
wires pointed to  
deep peroneal nerve.

(Q30) which is wrong

- a - 1 is peroneus longus
- b - 2 is posterior tibial vessels
- c - 3 is flexor digitorum longus
- d - 4 is medial head of gastrocnemius

netter plate 510

cross section in leg.



Done.

1/2/2009