

IQRA NATIONAL UNIVERSITY

DEPARTMENT OF ALLIED HEALTH SCIENCES

Mid-Term Examination (Summer 2020) (BS DT 1st, BS MLT 1st, BS RAD 1st)

Course Title: Human Anatomy-l

Instructor: Ms. Maria Feroze

Name: Madiha shah

Roll: 16265

Section: A (DT)

Time: 4 hours

Note:

• Attempt all questions from this section, all questions carry equal marks.

Q1. Define the following terms:

A) Motor unit,:

Ans:A motor unit, the functional unit of muscle contraction, is a single motor nerve and the associated muscle fibers that are thr nerve. A collection of motor units is referred to as a motor pool.

в) Ipsilateral:

Ans:ON the same side as opposed to contralateral .for example ,a tumor involving the

right side of the brain may affect vision ipsilateral' that is, in the right eye.

c) Supination:

Ans:1)Rotation of the forearm and hand so that the palm faces forward or upward akso:a corresponding movement of the foot and leg in which the foot rolls outward with an elevated arch.

2) The position resulting from supination.

D) Axial skeleton

Ans:The axial skeleton include all the bone along the bodie's long axis .lets work oyr way down this axis to learn about these structures and the bones that from them.The axial skeleton include the bone that from the skull,laryngeal skeleton ,vetebral column ,and thoracic cage.

E) Arteriosclerosis

Ans: Arteriosclerosis occurs when the blood vessels that carry oxygen and nutrients from your heart to the rest of your body (arteries) become thick and stiff

— sometimes restricting blood flow to your organs and tissues.

- F) Shunt.
- 1)To move a body fluid, such as cerebrous pinal fluid, from one place to another .2)A Cerebrospinal fluid from a ventricle in the brain to another area of the body. A shunt may be placed to relive pressure from hydrophalics.

Q2. Differentiate between type 1 and type 2 muscle fibers.

Type 1 vs Type 2 Muscle Fibers.

Type 2 muscle Type 2 muscle Fibers Type2 muscle Dezination Type muscle fibers are one type libers are of muscle libers another type of muscle Zibers that that are slow eve rapid firing. contracting. Glycogen Has a low glycogen Has a moderate level of glycogen. content content Fast contraction Slow Synonyms Slow Twitch Muscles Fast Twitch muscles. Color Real Red of white Respiration. Uses aexobic uses angeobic Respiration. respiration Mitchon Are more Are less dria: Prevalent Prevalent.

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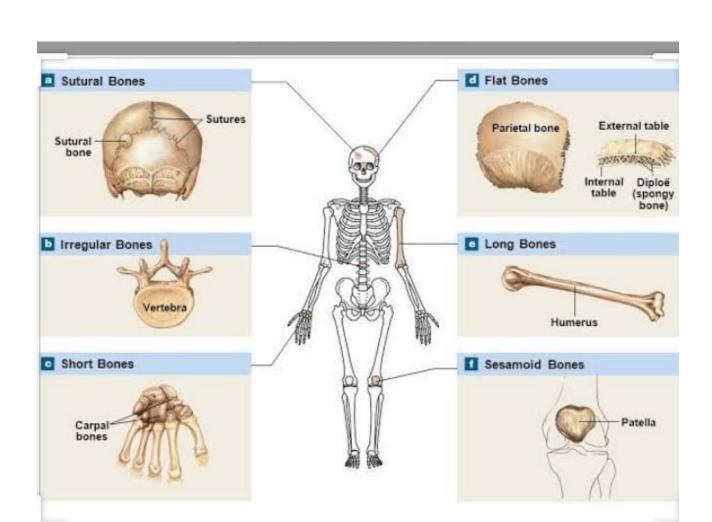
Q3. Classify the bones according to their shape.

Ants:

Classification of bone:

- 1:Long bones
- 2:Short bones
- 3:Flat bones
- 4:Irregular bones
- 5:Sasamoid bones

Structure:



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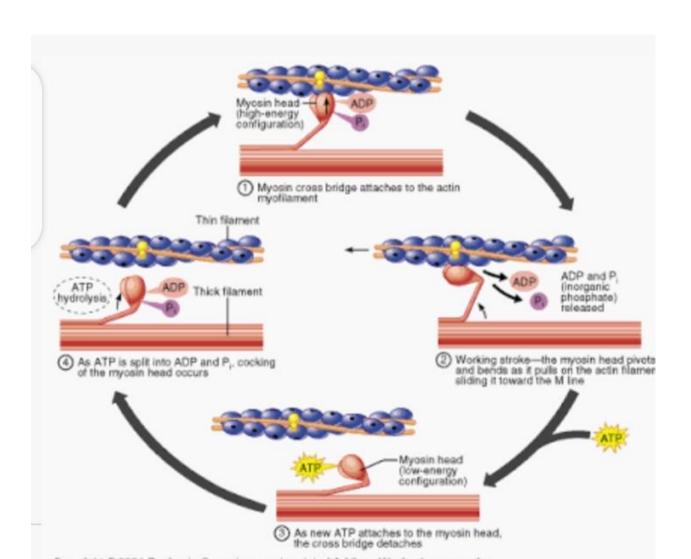
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Muscle contraction:

Muscle contraction occurs when the thin actin and thick myosin filaments slide past each other. It is generally assumed that this process is driven by cross-bridges which extend from the myosin filaments and cyclically interact with the actin filaments as ATP is hydrolysed.

Diagram:



.Q6. What is the anatomical position of scapula and clavicle in human body
Ans:

The collarbone is a large doubly curved long bone that connects the arm to the trunk of the body. Located directly above the first rib, it acts as a str to keep the scapula in place so that the arm can hang freely. Medially, it articulates with the manubrium of the sternum (breastbone) at the sternoclavicular joint.

