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Name: Atif Amjad

ID: 159992

Semester: 1st.

Section: —

Dated: 22-Aug-2020.

Paper: Anatomy Theory.

Question No: 1-

> Human Anatomy:

Definition:

Human Anatomy is defined as the study of structures in the human body.

> Anatomy focuses on the description of form, or how body structures look at different levels.

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> Types of Human Anatomy:

Following
are the types of Human
Anatomy:

- i) Microscopic anatomy.
- ii) Gross anatomy.

i) Microscopic anatomy:

It is a branch of anatomy that relies on the use of microscopes to examine the smallest structures of the body.

ii) Gross anatomy:

It is the study of anatomy at the visible or macroscopic level.

> Gross anatomy is further
(P-T-O)

divided into surface anatomy-
anatomy, Regional anatomy
and systemic anatomy.

> Subdivisions of Anatomy:

1- Cadaveric anatomy:
study of dead
bodies with naked eye.

2- Living anatomy:
study by inspection,
palpation, percussion etc.

3- Developmental anatomy:
Prenatal and
postnatal developmental
changes.

4- Microscopic Anatomy:
study of structures
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with help of microscope.

5-Surface Anatomy:

Study of deeper parts in relation to skin surfaces.

6-Radiographic anatomy:-

It is the study of deeper organs.

7-Comparative anatomy:-

It is the study of anatomy of other animals.

8-Applied anatomy:

Applying knowledge to medical and surgical practice.

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9- Experimental Anatomy:
Involving anatomical structures to collect information.

10- Genetics:-

It is the study of heredity.

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Question No: 3-

> Difference between Simple Compound and Complex Joint with the help of diagram:

i- Simple Joint:-
Definition:-

It is defined as,

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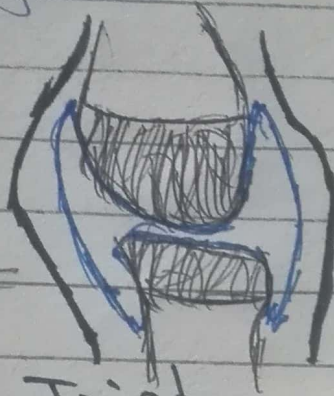
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Simple joint has two articulation surfaces.

> E.g. Shoulder joint and hip joint.

> Diagram:

Simple Joint ←



ii) Compound Joint:

Definition:

Compound joint is defined as, It has three or more articulation surfaces.

> E.g. Radiocarpal Joint.

> Diagram:

Compound Joint



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iii) Complex Joint:

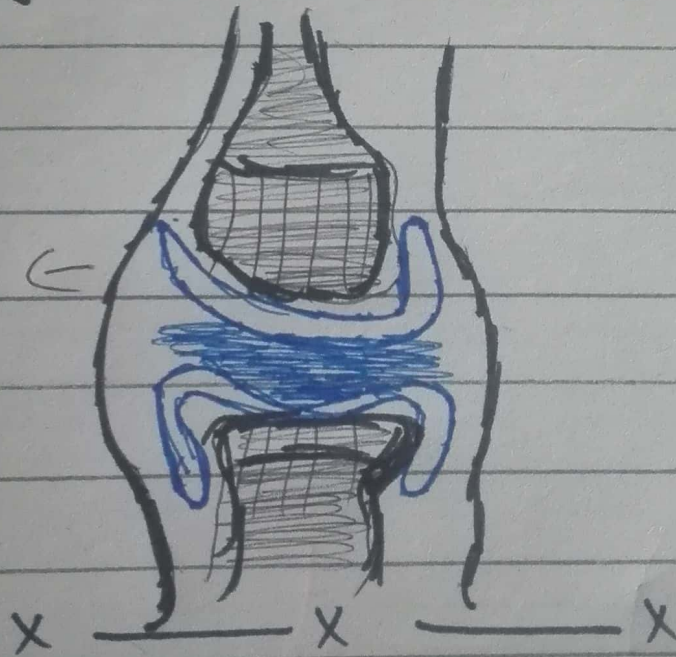
Definition:

Complex joint is defined as, It has three or more articulation surfaces and an articular disc or meniscus.

> E.g. - Knee joint.

> Diagram:

Complex Joint



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Question No-2.

> Classification of bones:-
Classification
of bones according
to it's development:-

Developmentally or
According to ossification

Intramembraneous
ossification.

Membranocartila-
genous ossifica-
tion.

Endochondral
ossification.

1) Intramembraneous Ossification:

> Mesenchymal of bones are

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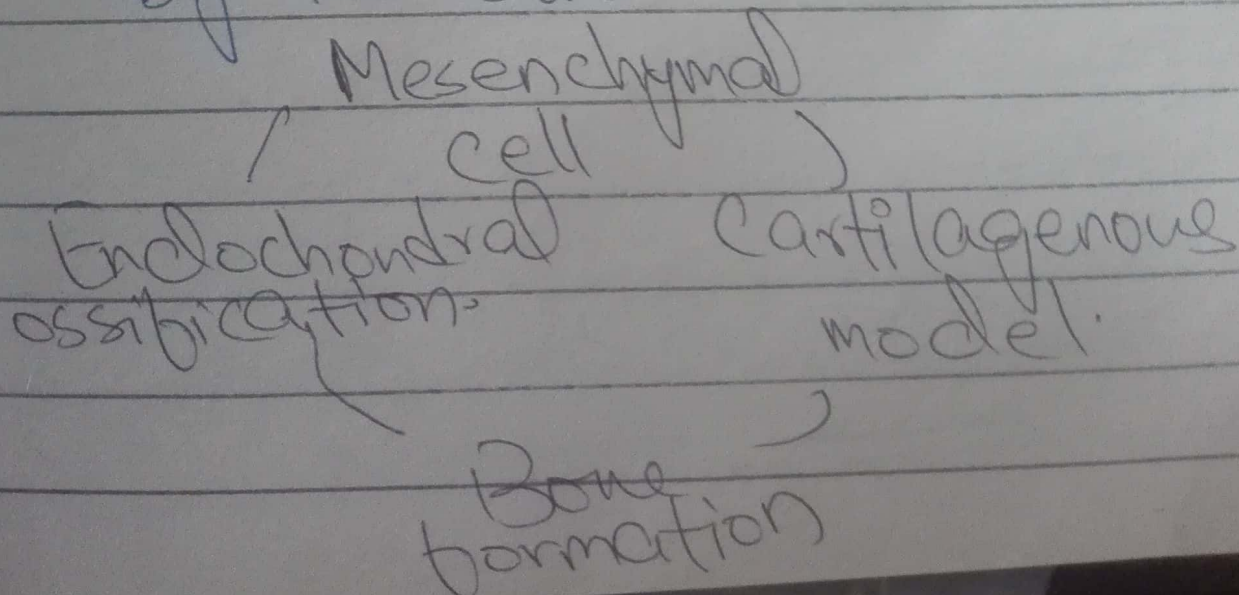
are formed during the embryonic period.

> Osteoblasts simply lay down in fibrous tissue.

> Eg - Bones of the skull, face and clavicle.

ii - Endochondral ossification:

Pre-existing hyaline cartilage model of the bone is gradually destroyed and replaced by the bone.



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> Membranocartilagenous Ossification:

> These bones develop partly from membrane and partly from cartilage.

> E.g. - temporal bone, occipital bone.

> Functions of Skeletal System:

Following are the functions of skeletal system:-

- i - Support.
- ii - Protection.
- iii - Movement.
- iv - Storage.
- v - Blood Cell formation.

x ——— x ——— x