

BONE DEVELOPMENT AND STRUCTURE

1. IDENTIFY THE FOLLOWING BONE COMPONENTS:

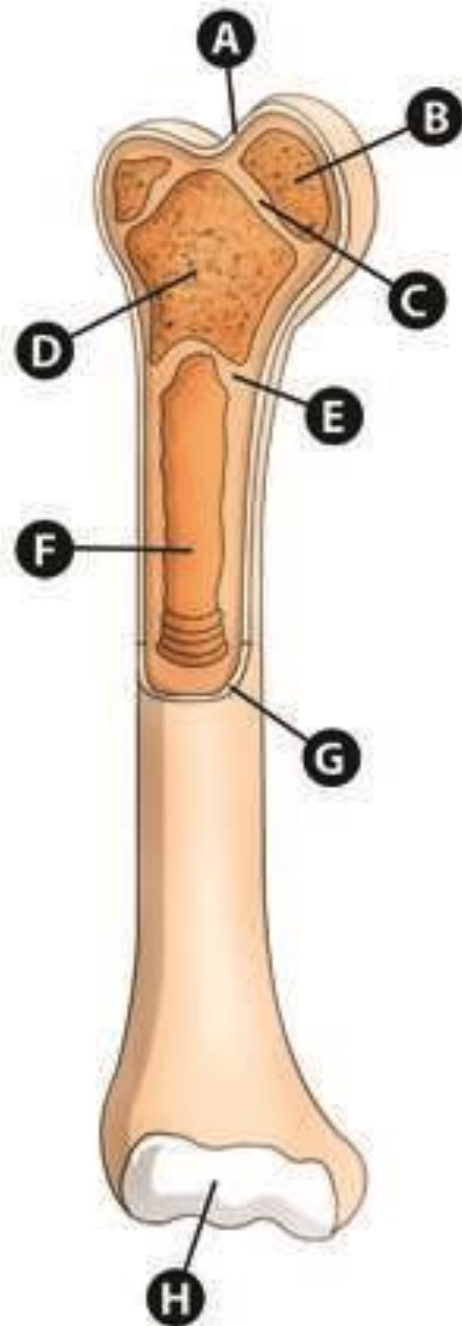
1. PERIOSTEUM
2. HYALINE CARTILAGE
3. EPIPHYSIS AND EPIPHYSEAL PLATE
4. DIAPHYSIS
5. CANCELLOUS OR SPONGY BONE
6. COMPACT BONE
7. MEDULLARY CAVITY

2. IDENTIFY THE MAIN STAGES IN THE FORMATION OF MATURE BONE VIA THE PROCESS OF ENDOCHONDRAL OSSIFICATION.

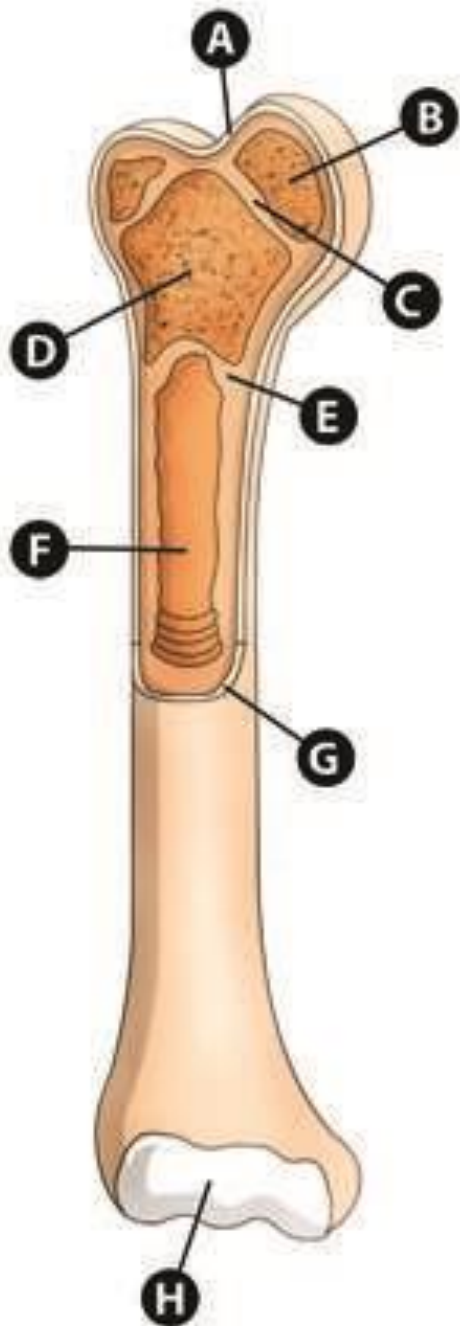
3. DESCRIBE THE PROCESS OF INTRAMEMBRANOUS OSSIFICATION.



BONE STRUCTURE



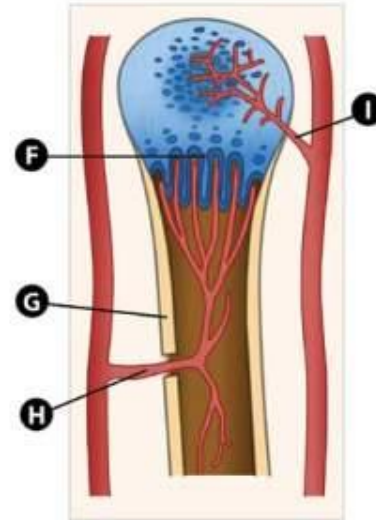
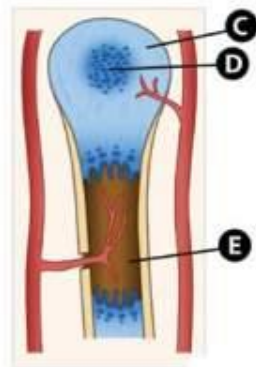
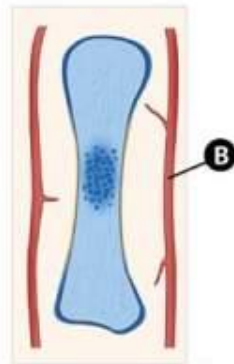
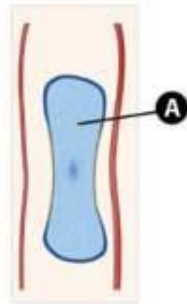
BONE TISSUE



- A. HYALINE CARTILAGE / PERICHONDRORIUM
- B. EPIPHYSIS
- C. EPIPHYSEAL PLATE
- D. CANCELLOUS / SPONGY BONE
- E. COMPACT BONE
- F. MEDULLARY CAVITY
- G. PERIOSTEUM
- H. ARTICULAR SURFACE / HYALINE CARTILAGE

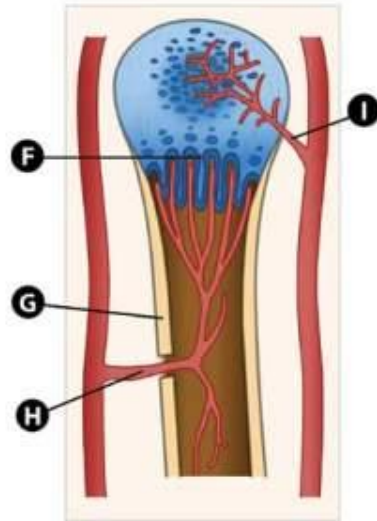
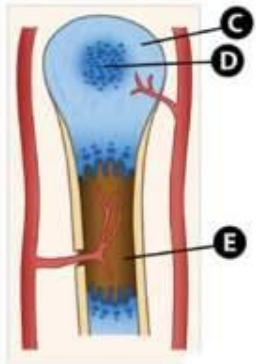
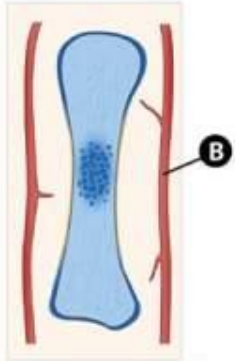
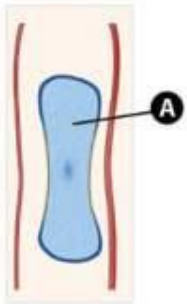


ENDOCHONDRAL OSSIFICATION



**Endochondral
ossification**

ENDOCHONDRAL OSSIFICATION

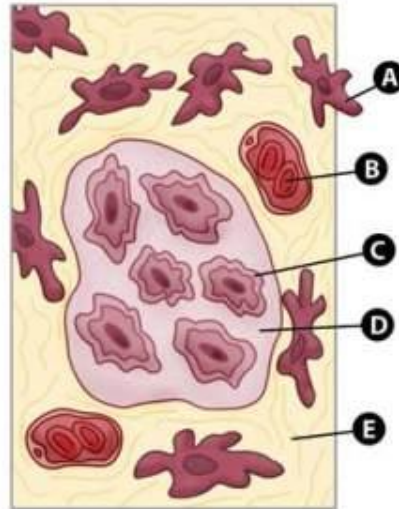


**Endochondral
ossification**

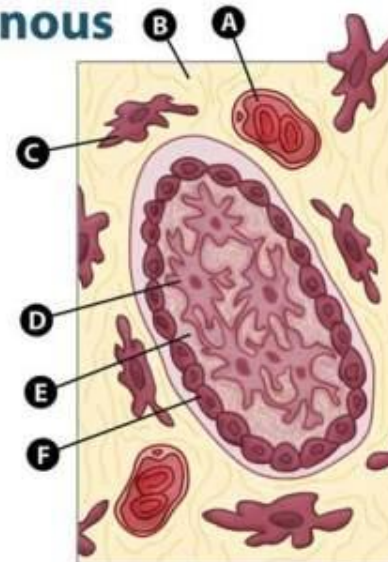
- A. PRIMITIVE CARTILAGINOUS MODEL
- B. NUTRIENT ARTERY
- C. DEVELOPING EPIPHYSIS
- D. PRIMARY OSSIFICATION CENTRE AT EPIPHYSIS
- E. MEDULLARY CAVITY
- F. CALCIFIED MATRIX
- G. COMPACT BONE
- H. NUTRIENT ARTERY
- I. EPIPHYSEAL ARTERY



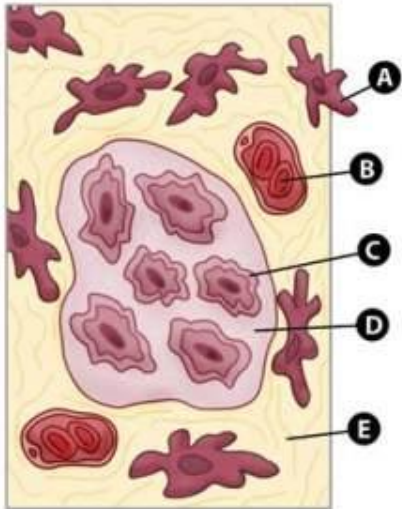
INTRAMEBRANOUS OSSIFICATION



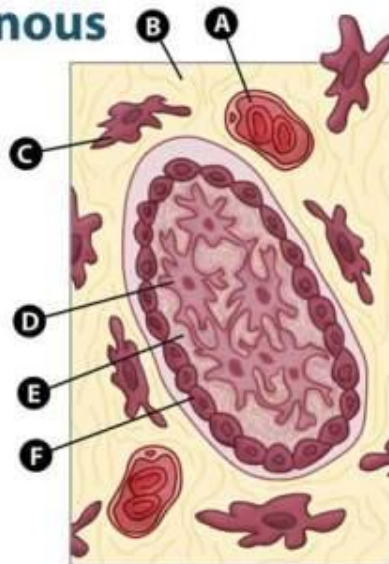
**Intramembranous
ossification**



INTRAMEBRANOUS OSSIFICATION



**Intramembranous
ossification**



- A. EMBRYONIC MESENCHYME
- B. CAPILLARY
- C. OSTEOLBLAST
- D. OSTEOID
- E. COLLAGEN FIBRES

- A. Capillary
- B. Collagen fibres
- C. Mesenchyme
- D. Osteocytes
- E. Osteoid
- F. Osteoblasts



END

