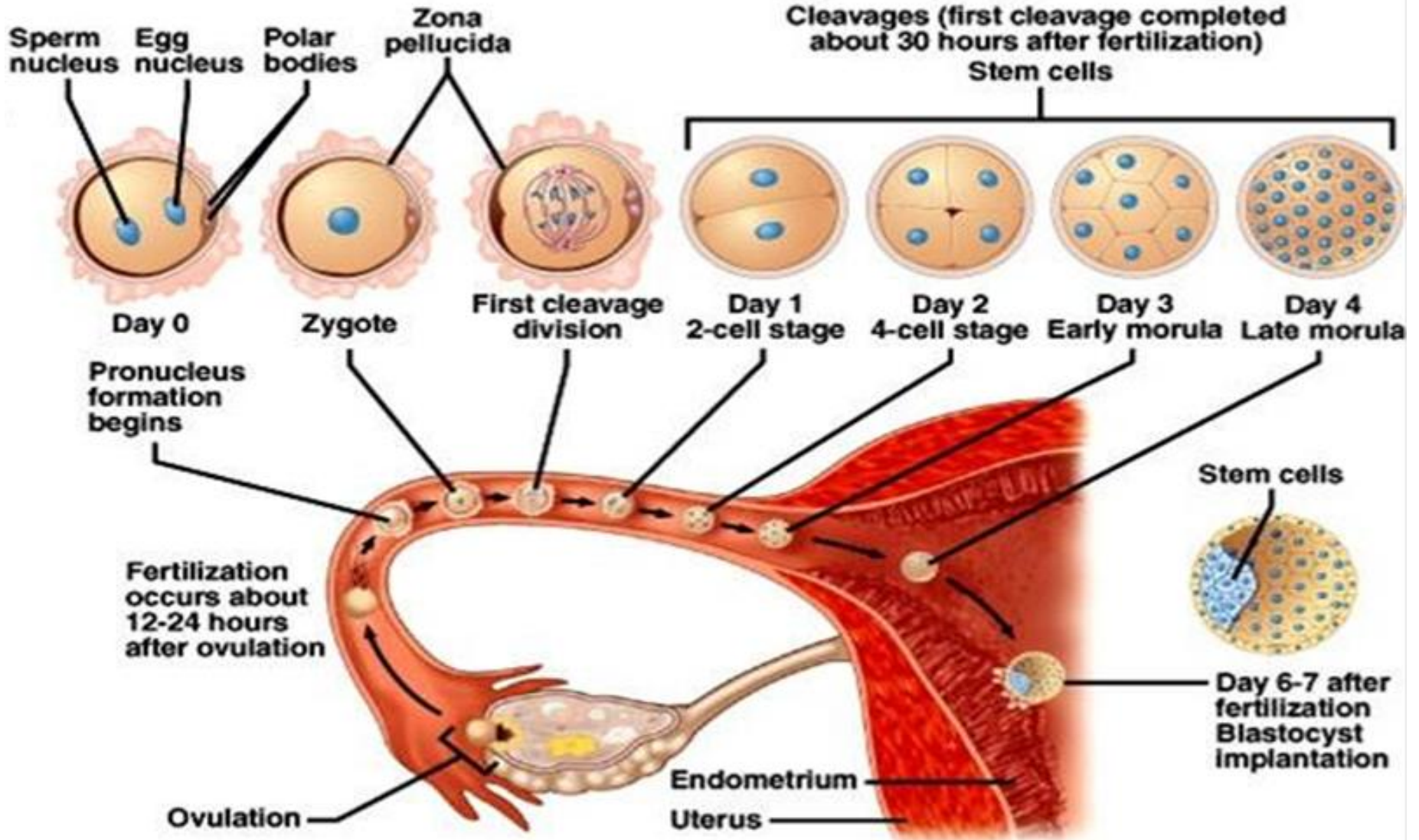


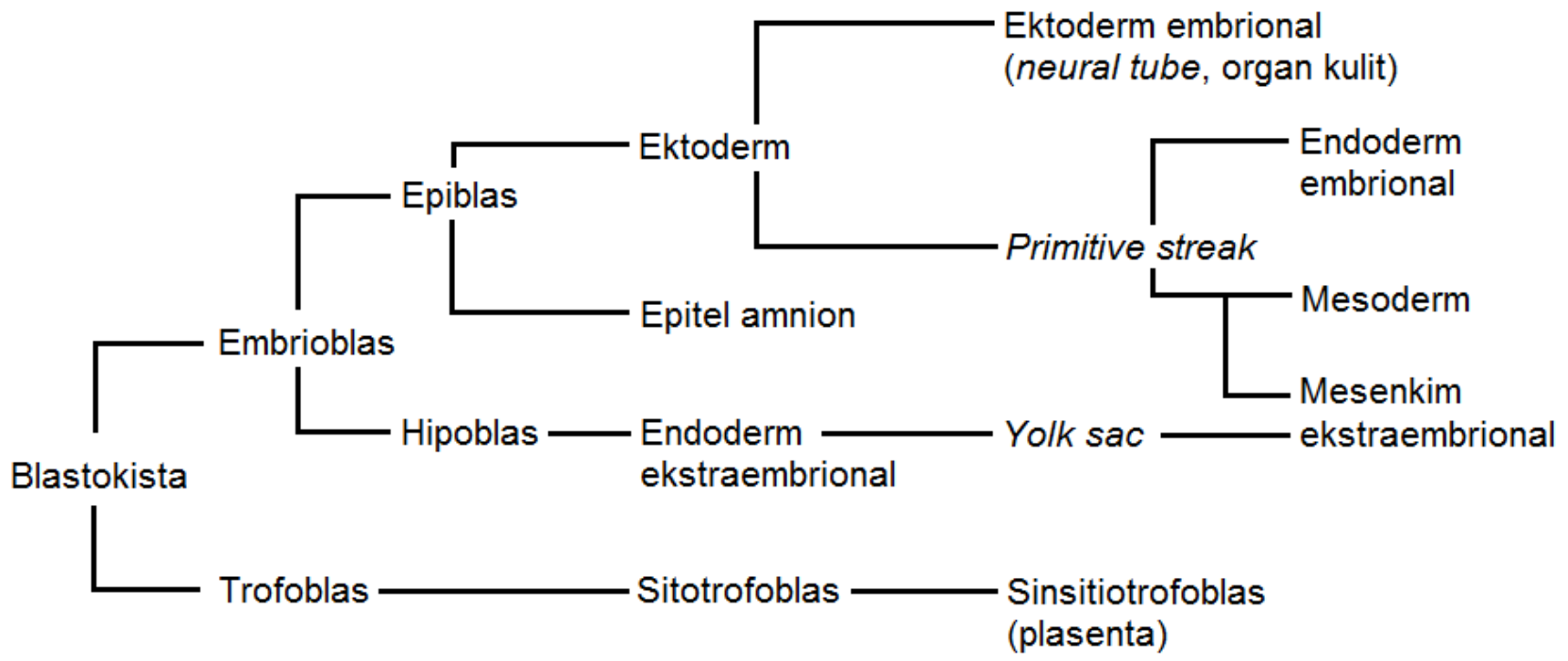
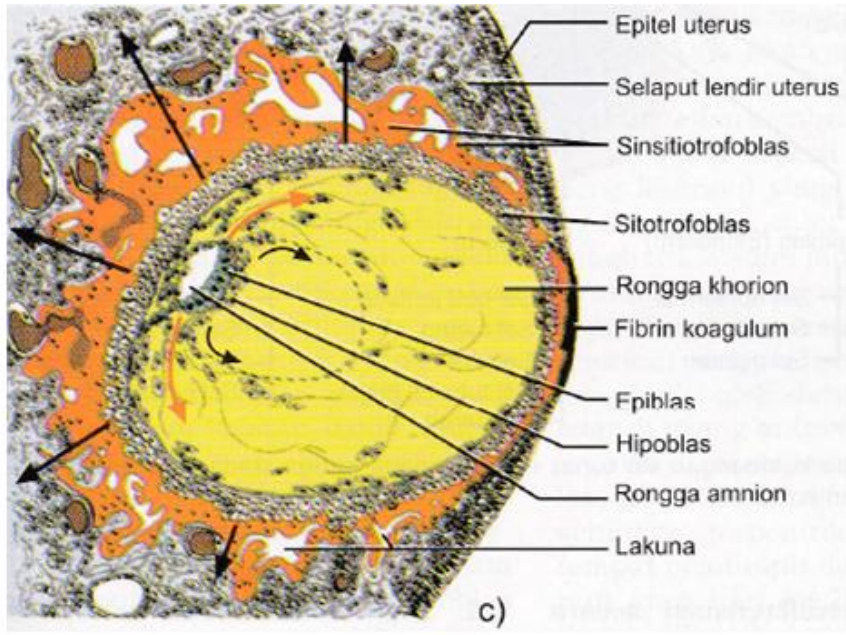
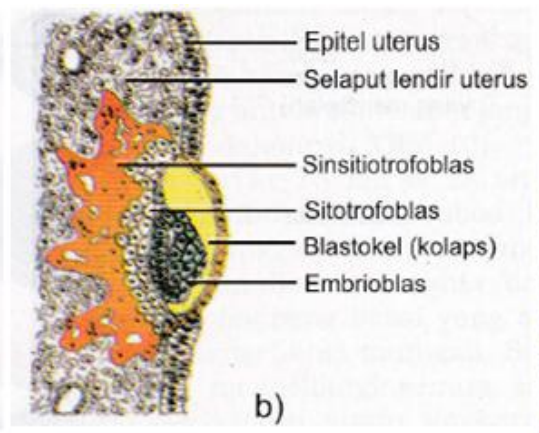
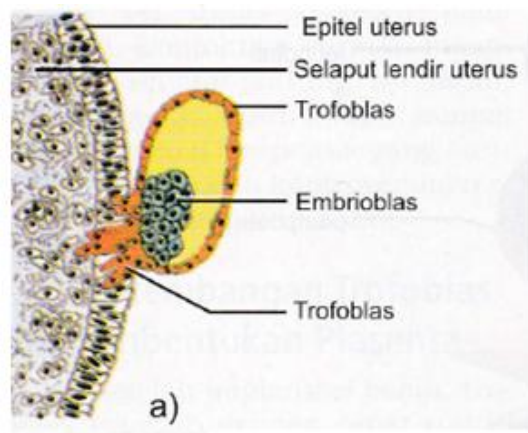
EMBRIOLOGI

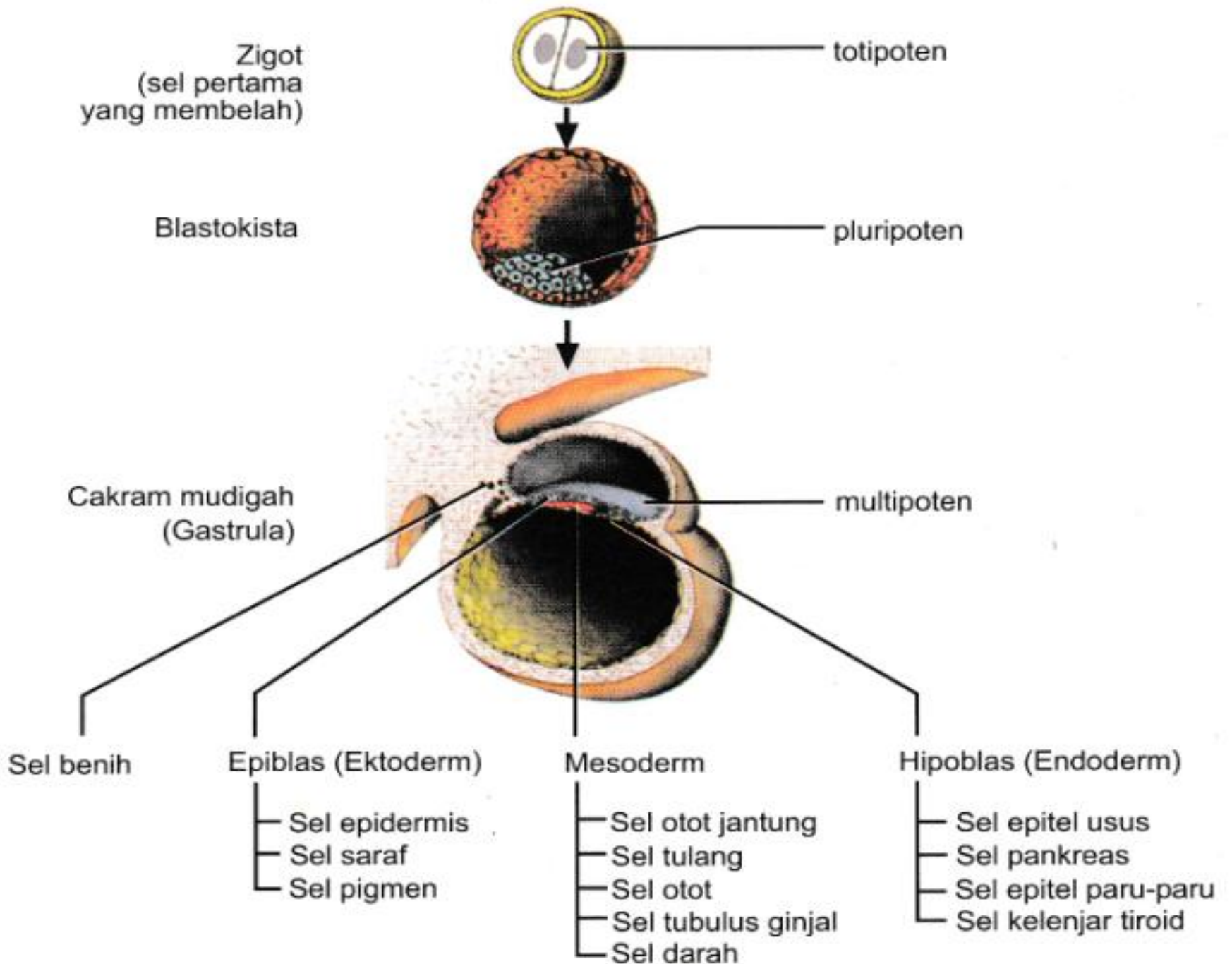


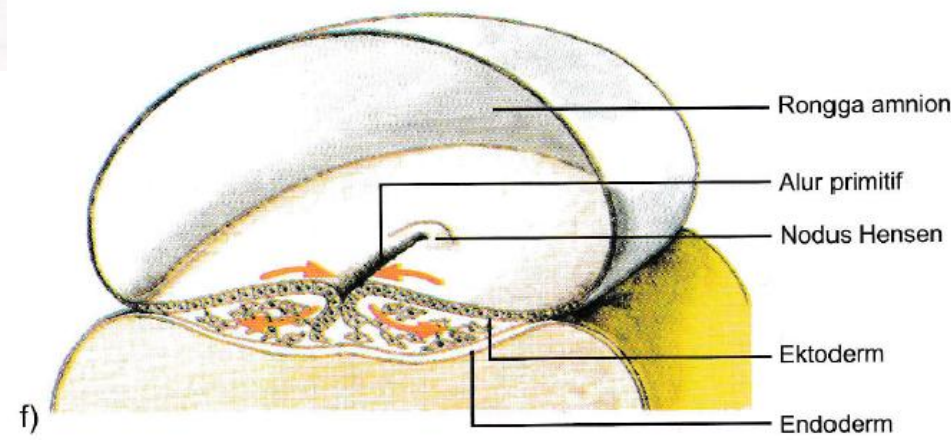
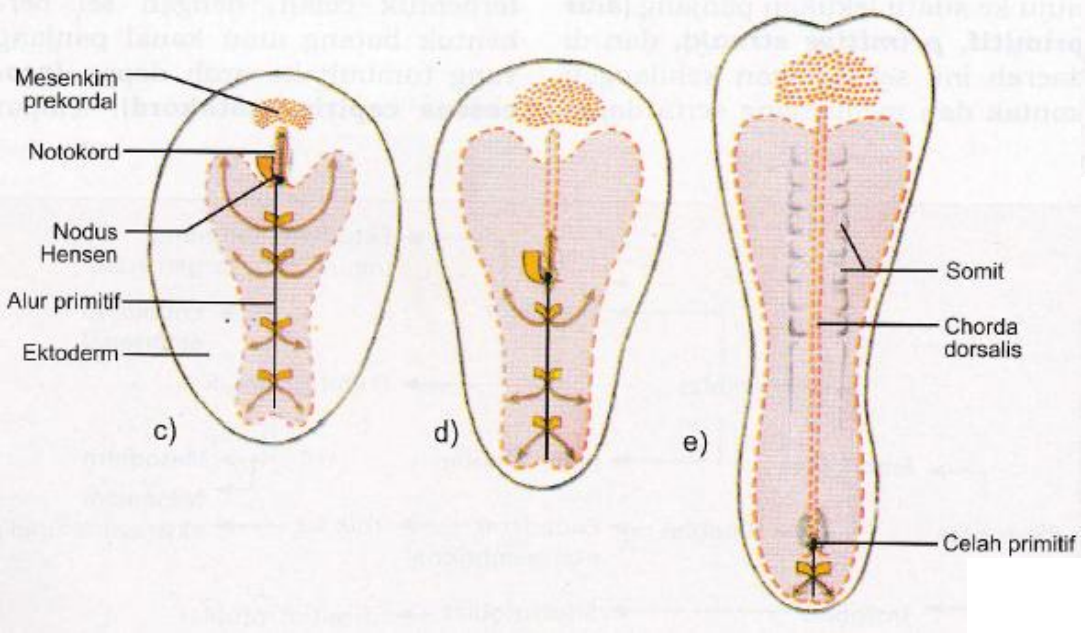
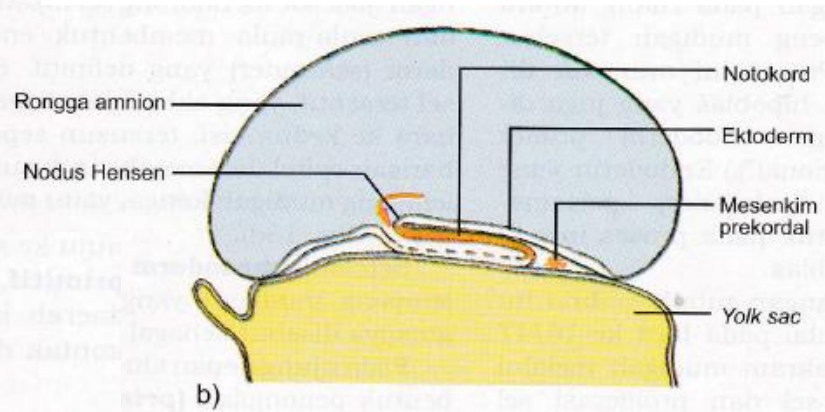
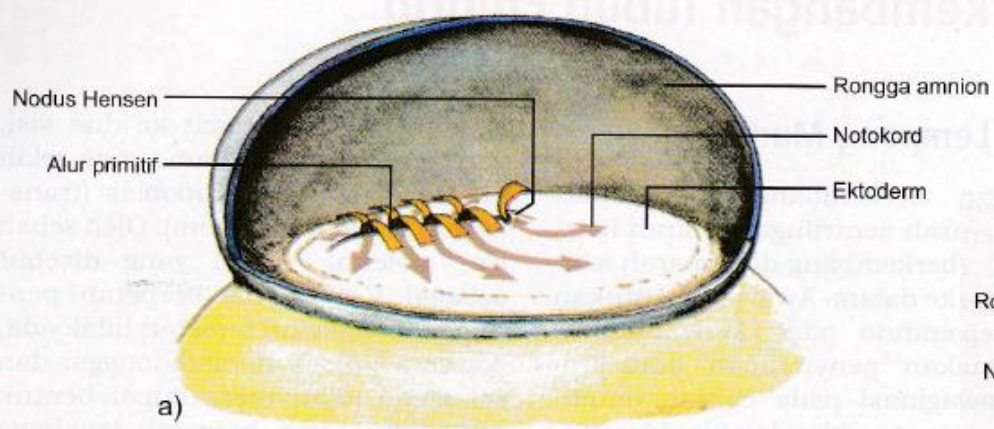
dr. Al-Muqsith, M.Si

EMBRYOGENESIS

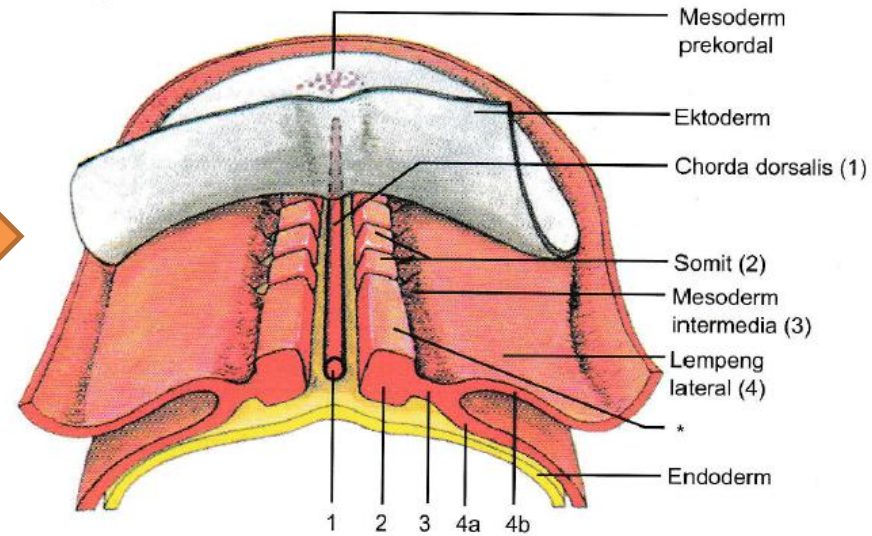
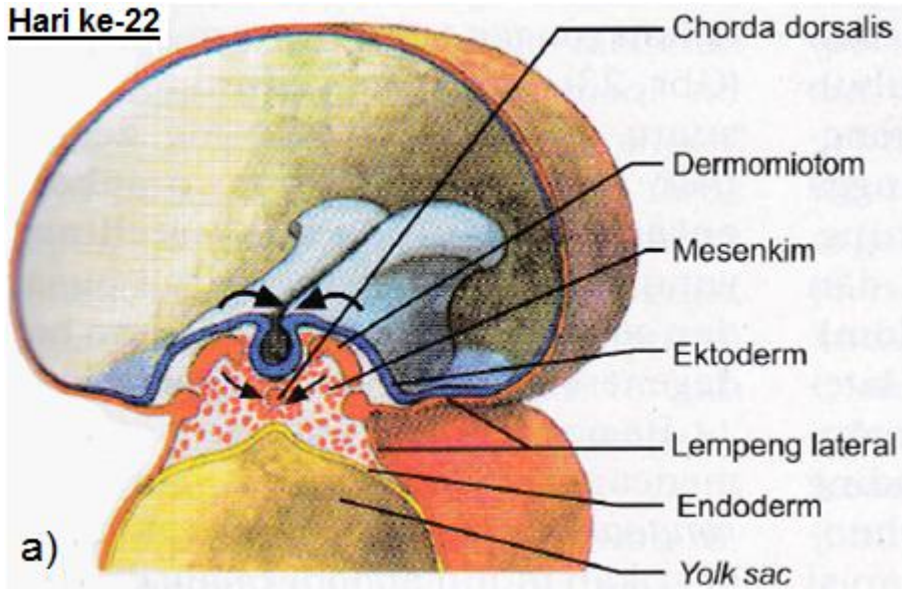




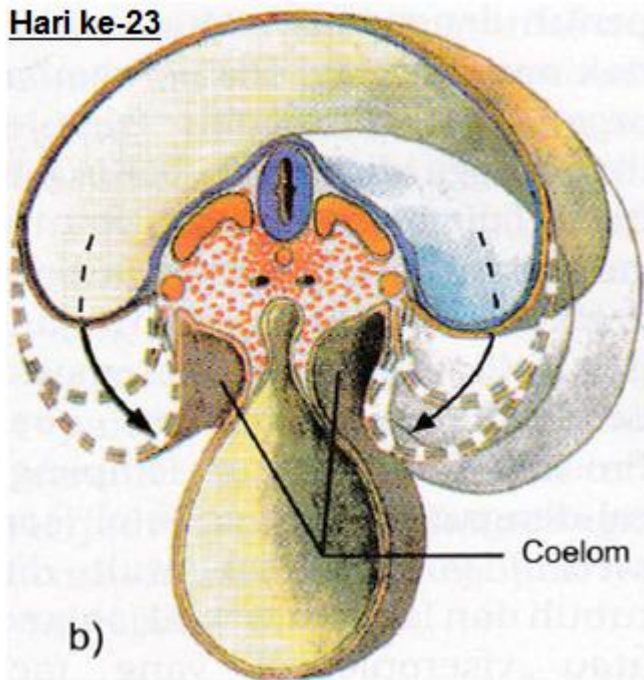




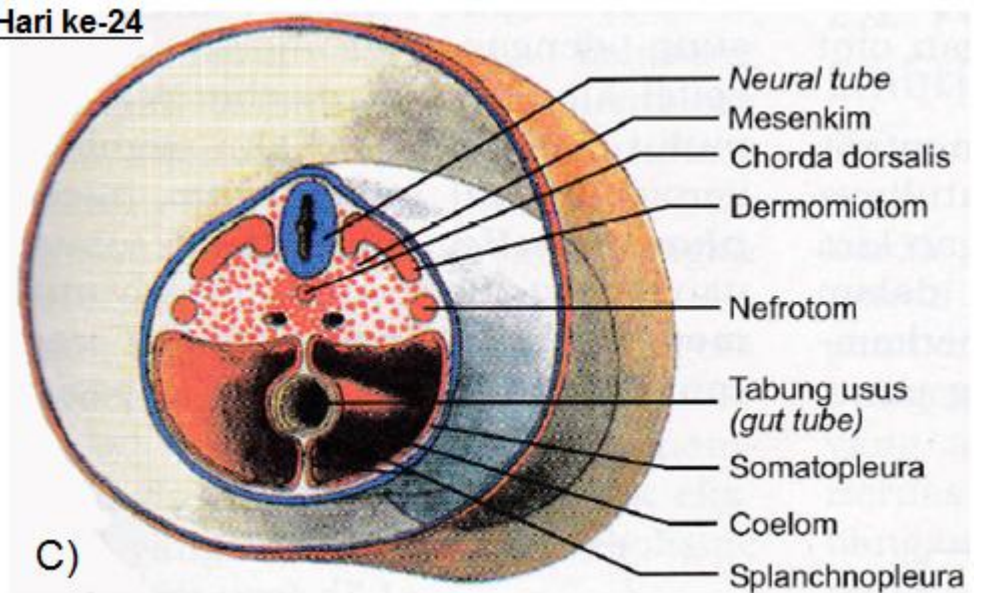
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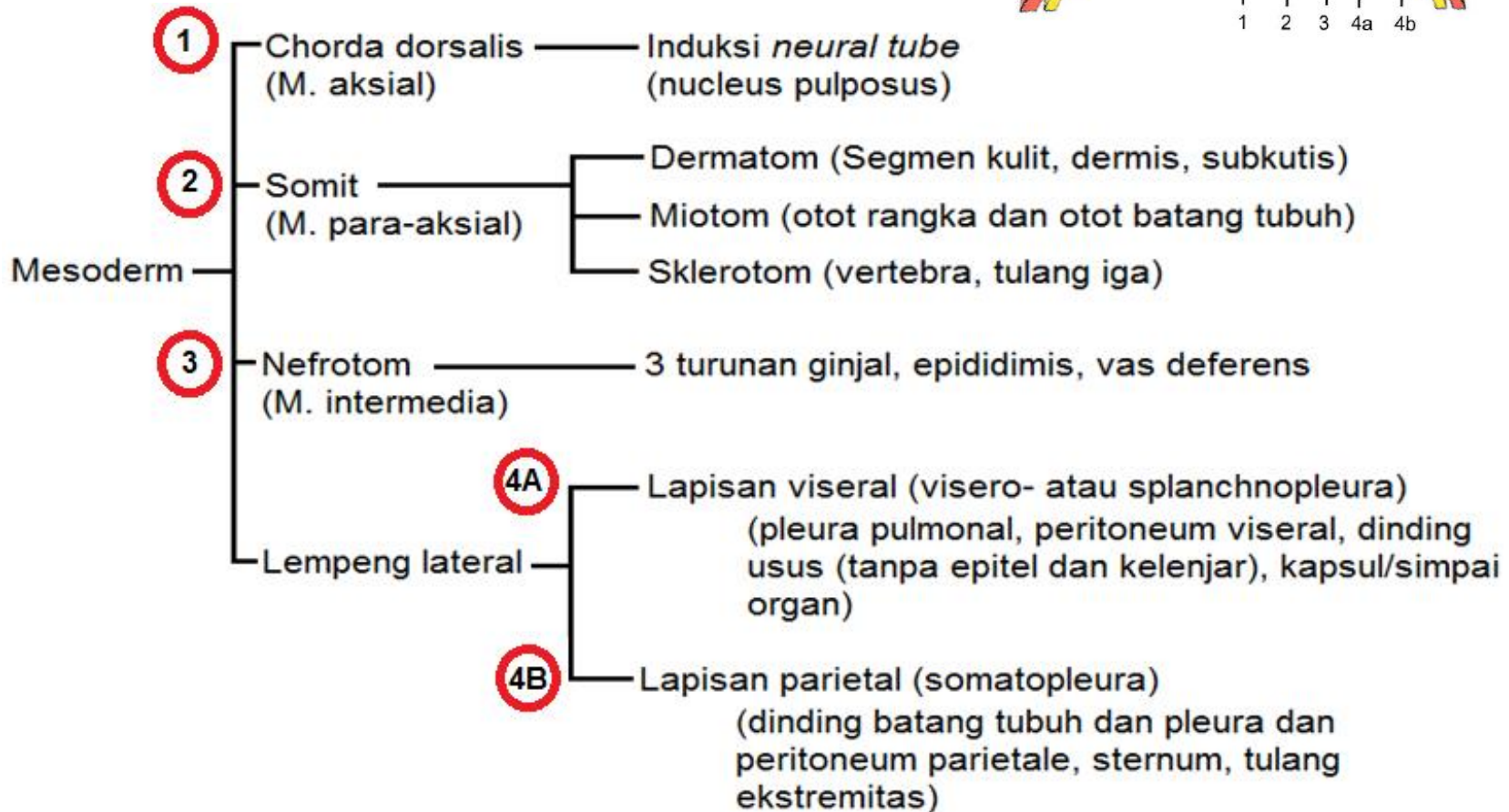
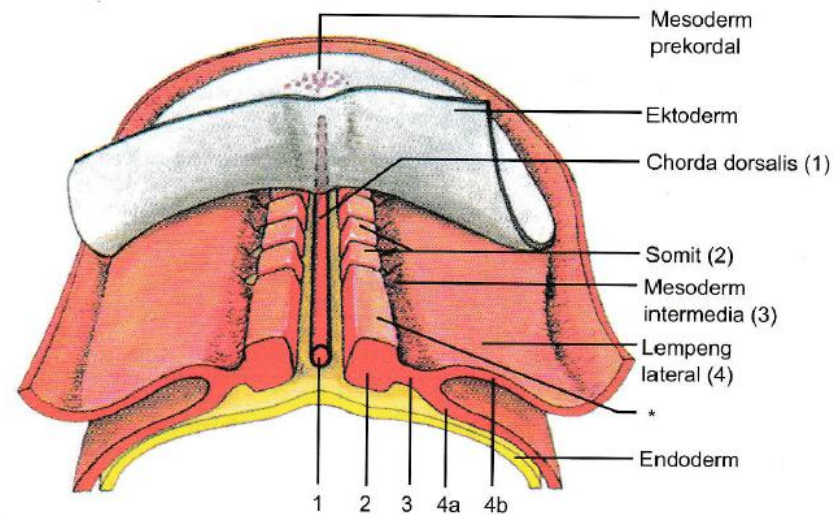


Hari ke-23

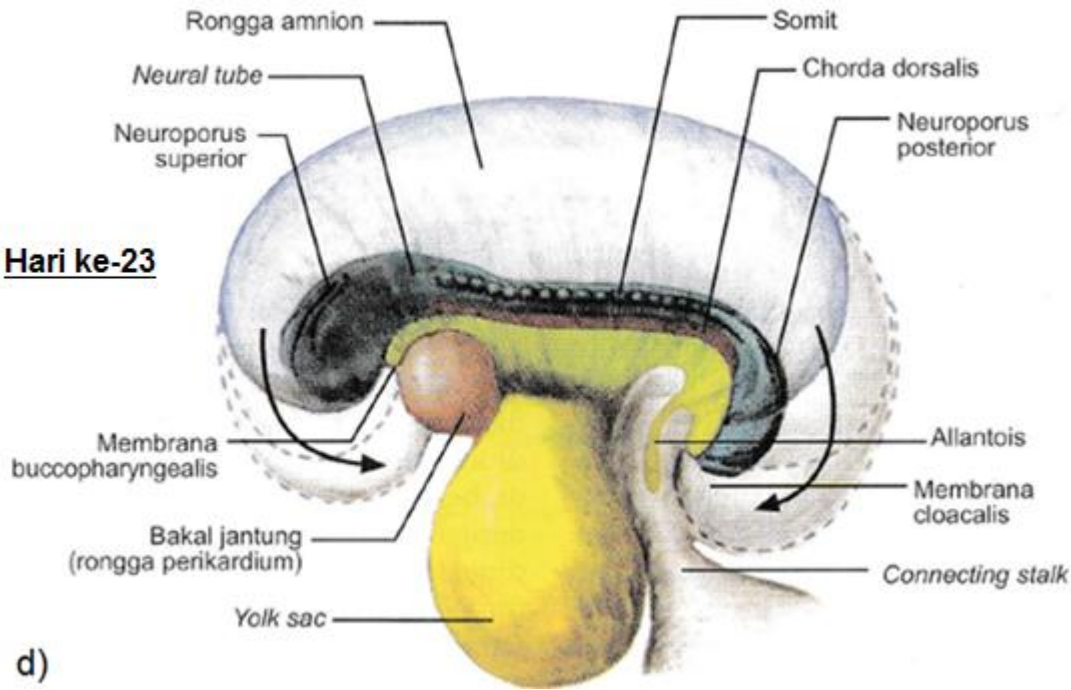


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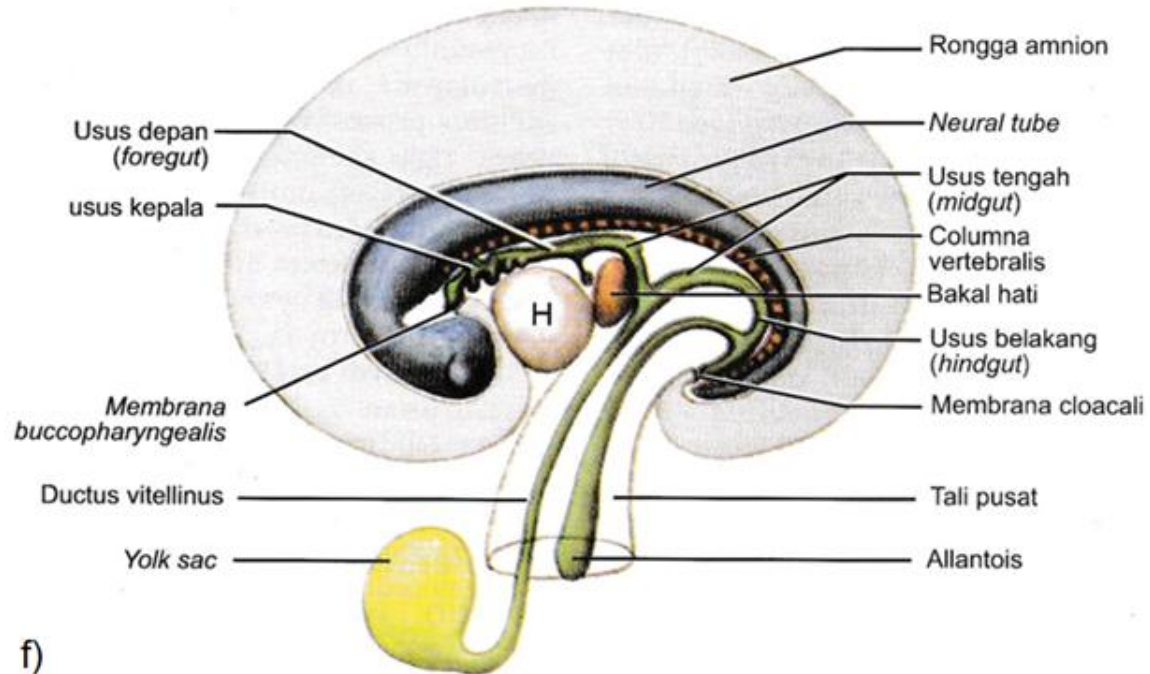


Hari ke-23



d)

Biru (sistem saraf), dari ektoderm
 Hijau (sistem pencernaan dgn Yolk sac & allantois), dari endoderm
 Organ gerak & sirkulasi (kolumna vertebralis, otot, jantung, pemda), berasal dari mesoderm



f)

DERIVAT LEMPENG MUDIGAH

EKTODERM : epitel amnion

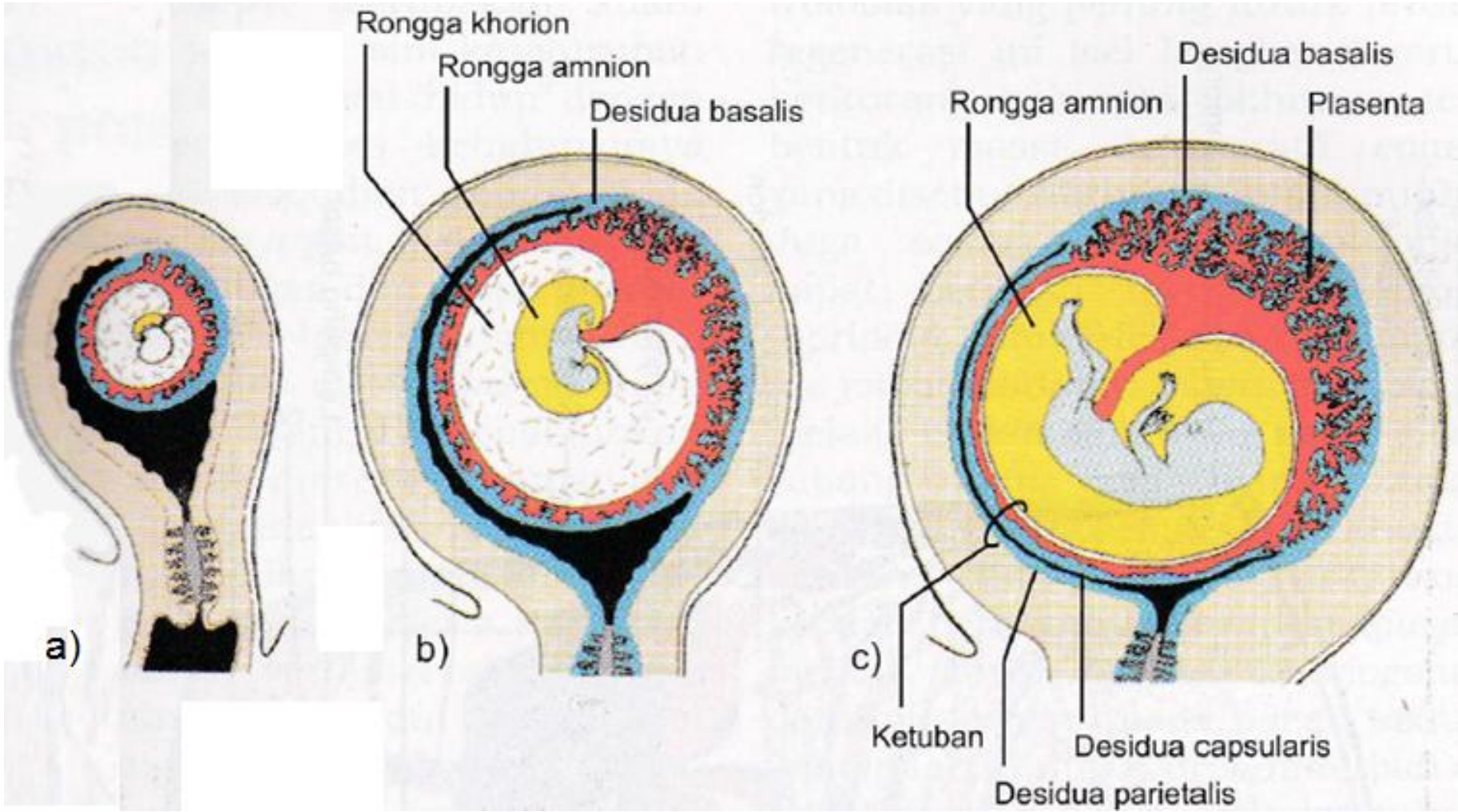
1. SSP (Susunan Saraf Pusat): keseluruhan sistem saraf perifer, bagian epitel panca-indra (mata, telinga, hidung, lensa).
2. Kulit: epidermis dengan rambut dan kelenjar.
3. Mesoektoderm/ektomesenkim: mesenkim kepala, melanosit.
4. Paraganglion: contoh, medula kelenjar suprarenal (adrenal)

MESODERM : chorda dorsalis (mesoderm aksial), somit (mesoderm paraaksial), batang somit (mesoderm intermedia, nefrotom), lempeng lateral (splanchnopleura dan somatopleura)

1. Jaringan penyokong, jaringan ikat, tulang rawan, tulang, tendon.
2. Jaringan otot: otot polos dan otot lurik.
3. Otot jantung: sebagian berasal dari material krista neuralis.
4. Sistem pembuluh limfe dan pembuluh darah: darah, pembuluh darah, jantung (endokardium, epikardium, dan perikardium), limpa, kelenjar limfe, sumsum tulang.
5. Sistem urogenital: ginjal (glomeruli, nefron), saluran kemih yang menyalurkan urin (sampai kandung kemih), kelenjar benih (tanpa sel kelamin), epididimis, duktus deferens, duktus ejakulatorius, uterus, tuba uterina.
6. Korteks kelenjar adrenal.

ENDODERM: *Yolk sac*, allantois

1. Saluran cerna termasuk juga kelenjar terkait (hati, saluran empedu dan pankreas).
2. Esofagus, rongga mulut (sepertiga bagian belakang)
3. Organ brankhiogenik: kelenjar tiroid, paratiroid, tonsilla palatina (hanya epitel), timus, tuba auditoria dan cavitas tympanica (hanya epitel).
4. Organ respirasi: epitel dan kelenjar paru, percabangan bronkus, trakea dan laring.
5. Bagian bawah saluran kemih: kandung kemih, uretra, urachus.





TERIMA KASIH