

CYCLOSTOMATA CLASSIFICATION

DEGREE - I

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PAPER-II

Cyclostomata

General characters

1. Body elongated
2. Trunk and tail consist of myotomes, myotomes are separated by myocommata
3. Tail compressed
4. Skin devoid of exoskeleton, soft, no scales, unicellular glands present
5. Endoskeleton is fibrous and cartilaginous
6. Jaws absent
7. Paired appendages absent
8. Mouth sectorial, ventral, circular
9. No stomach, intestine with typhlosole
10. Gill slits 1 - 16 pairs and gills 5 - 16 pairs
11. Nostril single and median
12. Heart 2 chambered- 1-auricle and 1-ventricle, conus arteriosus present
13. Renal system absent, hepatic portal system present
14. Kidneys mesonephric, duct from kidney opens into urinogenital papilla
15. Nerve cord dorsal
16. 8-10 pairs of cranial nerves
17. Sexes separate/united
18. Gonads single
19. Notochord persistent
20. Fertilization external, development direct or indirect

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