

01

MONDAY
JANUARY

Recor! -

2 Thousand 16

1. Aquatic, either freshwater or marine, ectothermic neotons.
2. An exoskeleton of scales is usually present in fishes, but few species are even naked secondarily.
3. Integument contains mucous glands and chromatophores.
4. Skeleton is less massive than that of terrestrial neotons.
5. Organs of respiration are gills throughout life but accessory respiratory organs may also be present.
6. Gills are borne by true bony gill-arches. They open outside by gill-slits, which are covered by operculum in teleosts.
7. The gill-slits are usually 5 pairs but never more than 2 pairs.
8. Lateral line system is well developed. It is sensitive to water currents and changes in pressure & vibrations (echo-location).
9. Endoskeleton is cartilaginous or bony.
10. There is no middle ear, only internal ear is present.
11. Eyelids & tear glands absent.
12. Flethy muscular tongue is absent.
13. Visceral skeleton is well developed.
14. Locomotion by muscular contraction assisted by paired & unpaired fins which are supported by fin rays of dermal origin.
15. Paired visceral arches are 7. The first pair forms the upper & lower jaws, the second forms suspension and the remaining support the gills.

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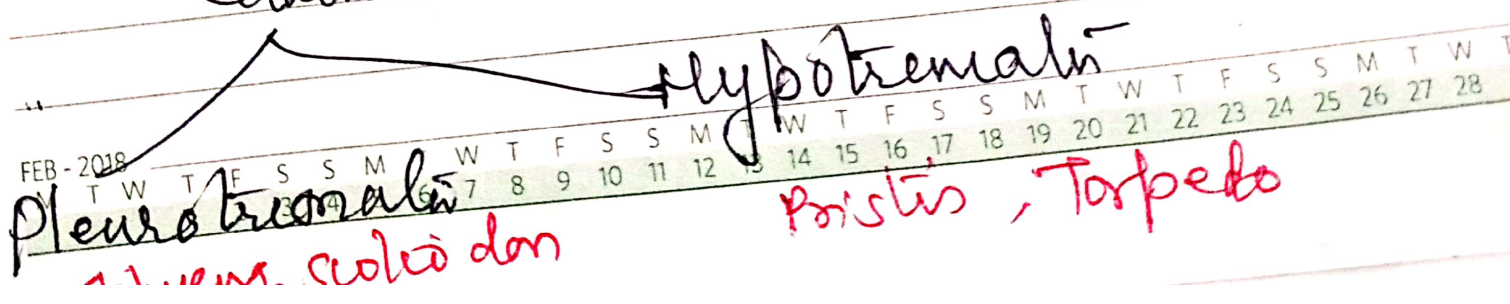
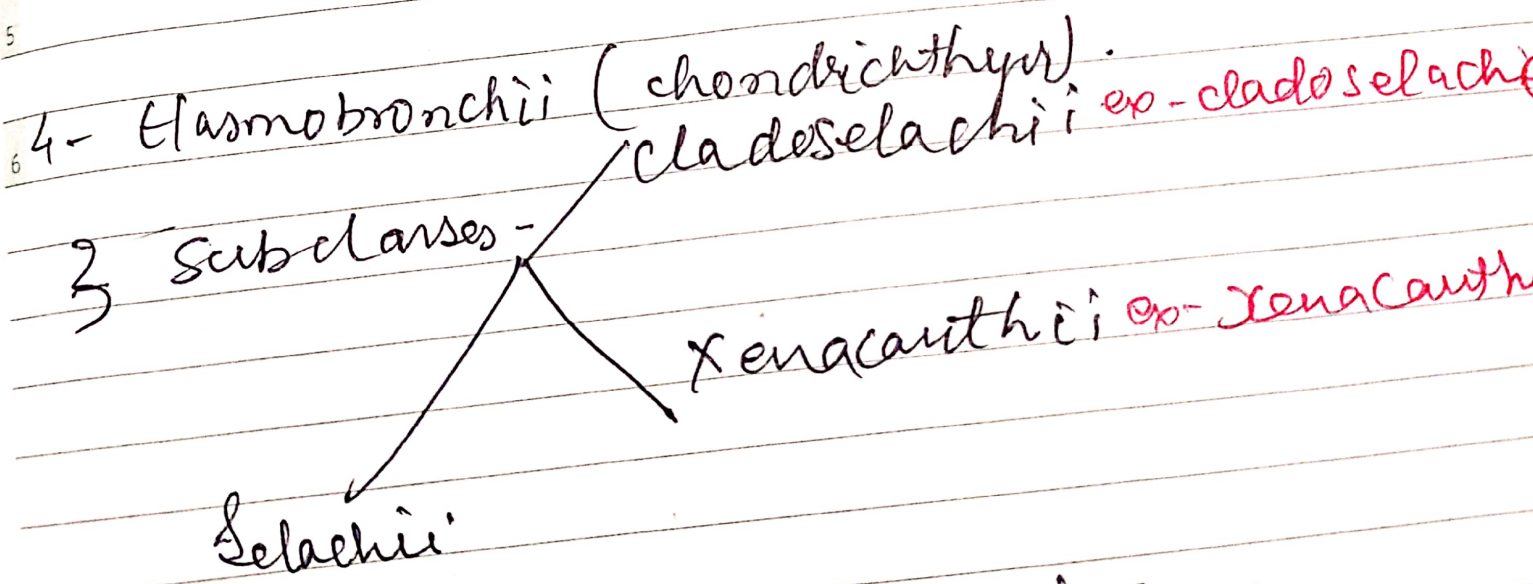
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- 16. The kidney is of mesonephric type.
- 17. The ten pairs of cranial nerves are present.
- 18. The gonads possess true gonoducts.
- 19. Unisexual.
- 20. Development indirect
- 21. Amnion & allantois are absent in the embryonic stages.
- 22. Cerebrum is primarily an olfactory centre.

Berg's classification -

- 7 classes: -
1. Pterichthys
 2. Coccostei
 3. Acanthocephali
 4. Elasmobranchii (including shark rays, skatis, chimeras)
 5. Holocephali
 6. Dipnoi
 7. Teleostomi
- } extinct, known as placoderm.



03

WEDNESDAY
JANUARY

(003-362) WK 01

5- Holocephali -
(entire head)

2 orders ① Trinopterygiformes (extinct)

② Chimaeriformes (extant)
ex - chimaera.

6) Dipnoi (two breath)

7) Monopneumonia - (trace of single lungs) -
ex - Neoceratodus.

2) Dipneumonia (trace of two lungs) -
ex - Lipidochelys & Protopleurus -

Cartilaginous



29 MONDAY
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2 Thousand 18

Rome - 1959

~~Chondri~~

Elasmobranchii
(cartilaginous)

Holocephali
(Hollow skull)

Dipnoi
(Lung fish)

Teleostei
(Bone fish)

1966

Ⓟ

Usinger - Storer

Elasmobranchii → 2 Subclasses

① Selachii

squaliformes
Pneustromali
(Side opening)

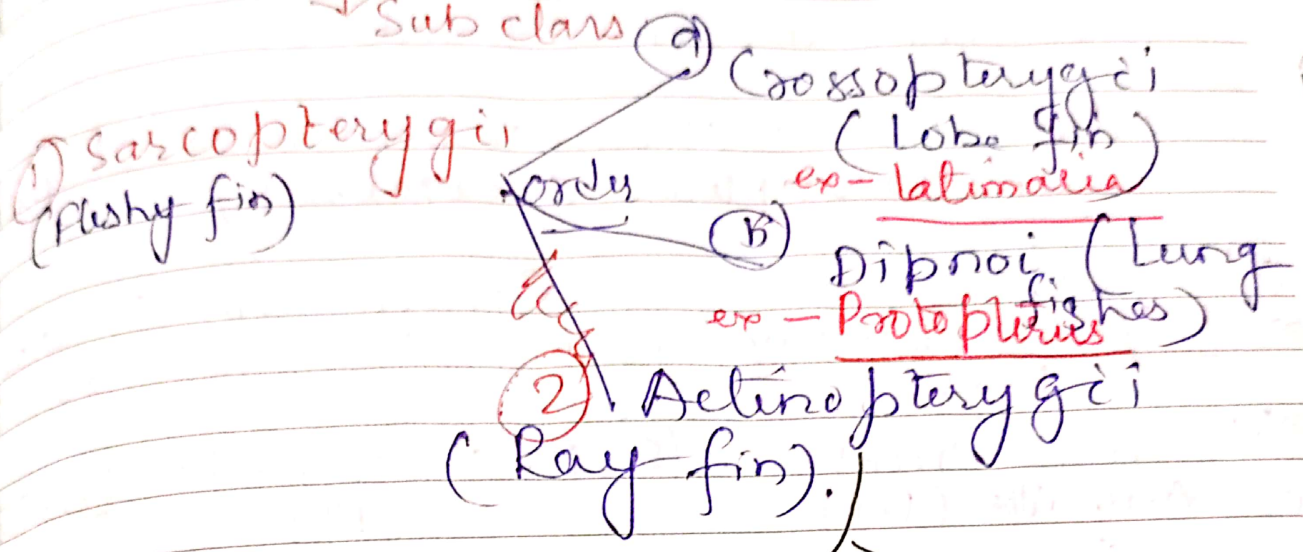
Rajiformes

Elyptostromali
(Below opening)

② Holocephali (entire head)

Osteichthyes (Teleostomi)

↓ Sub class



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Answer

Osteichthyes: -

Super Order (3) Teleostei (completi bony fishes)

Order - (15) → ① clupeiformes. Ex - clupea
Salmo, Notopterus (chital fish)

② scopeliformes
Ex - Harpodon (Bombay Duck)

③ Cypriniformes. Ex - labeo
rohita, Catla, wallago

④ Anguilliformes
Ex - Anguilla (Eel)

⑤ Beloniformes Ex - Exocoetus
(Flying fish)

⑥ Syngnathiformes
Ex - Hippocampus (Seahorse)
Syngnathus (Pipe fish)

⑦ Ophidcephaliformes or channi
Ex - Ophiocephalus (Snake head)

⑧ Mastacembeliformes
Ex - Mastacembelus

⑧ Perciformes
Ex - Anabas (climbing perch)

⑩ Pleuronectiformes
Synaptura (Flatfish)

⑪ Echeineiformes.
Ex - Echeneis (sucker fish)

⑫ Tetrodontiformes
Ex - Tetrodon
(globe fish)

⑬ Lophiiformes
Ex - Lophius