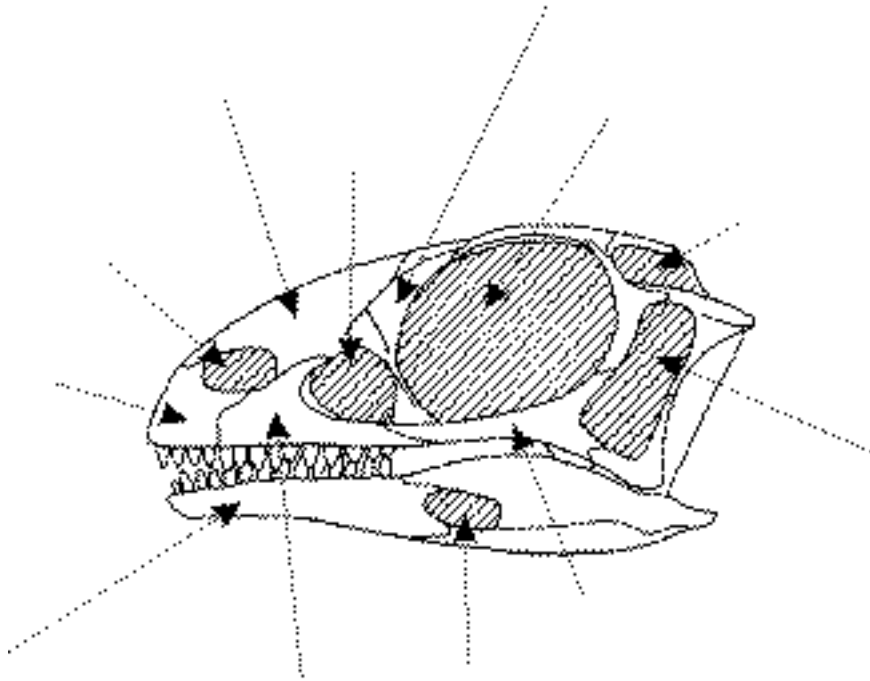


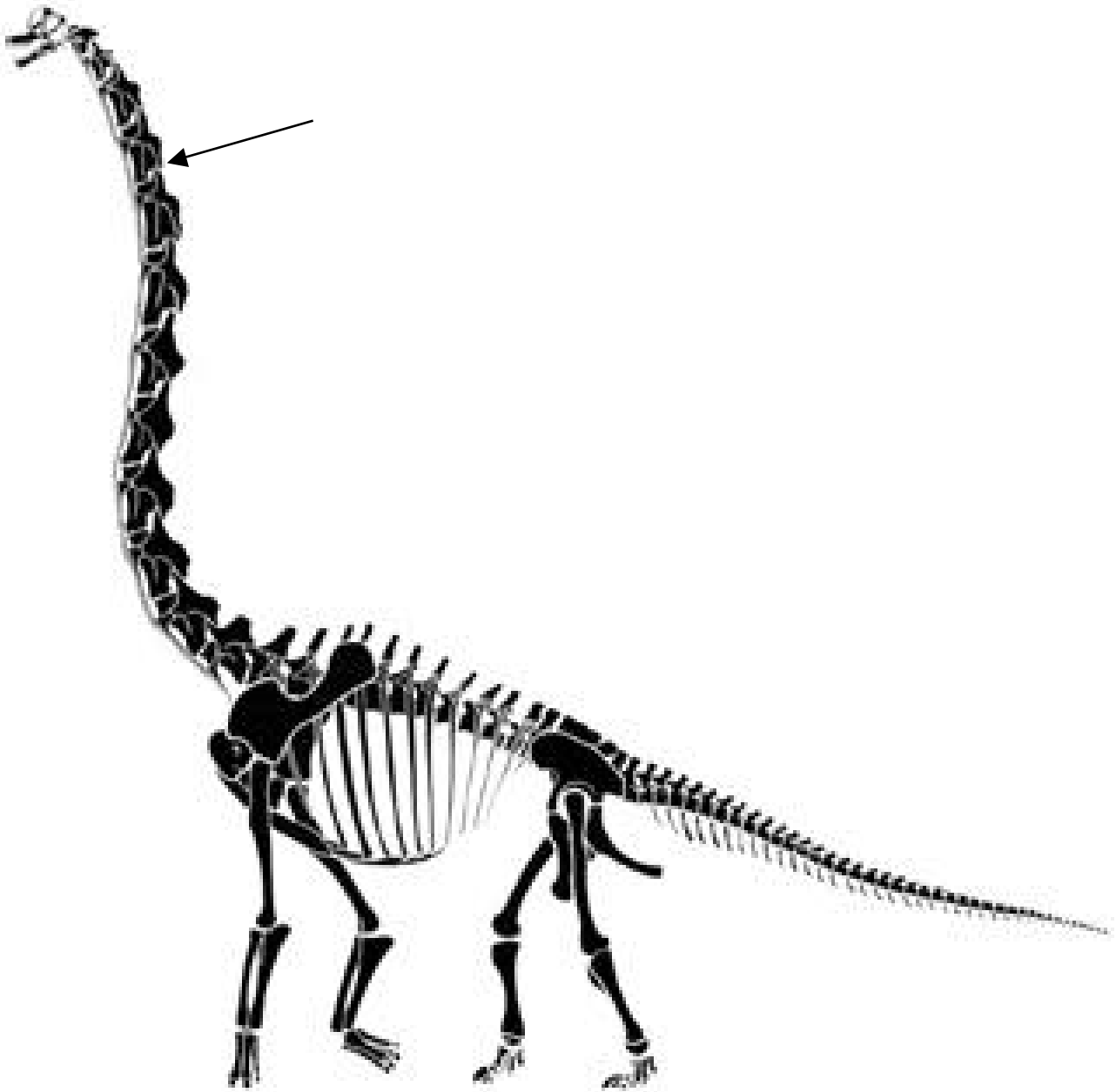
Homework # 2 – Dinosaur Anatomy and Systematics



Thecodontosaurus antiquus

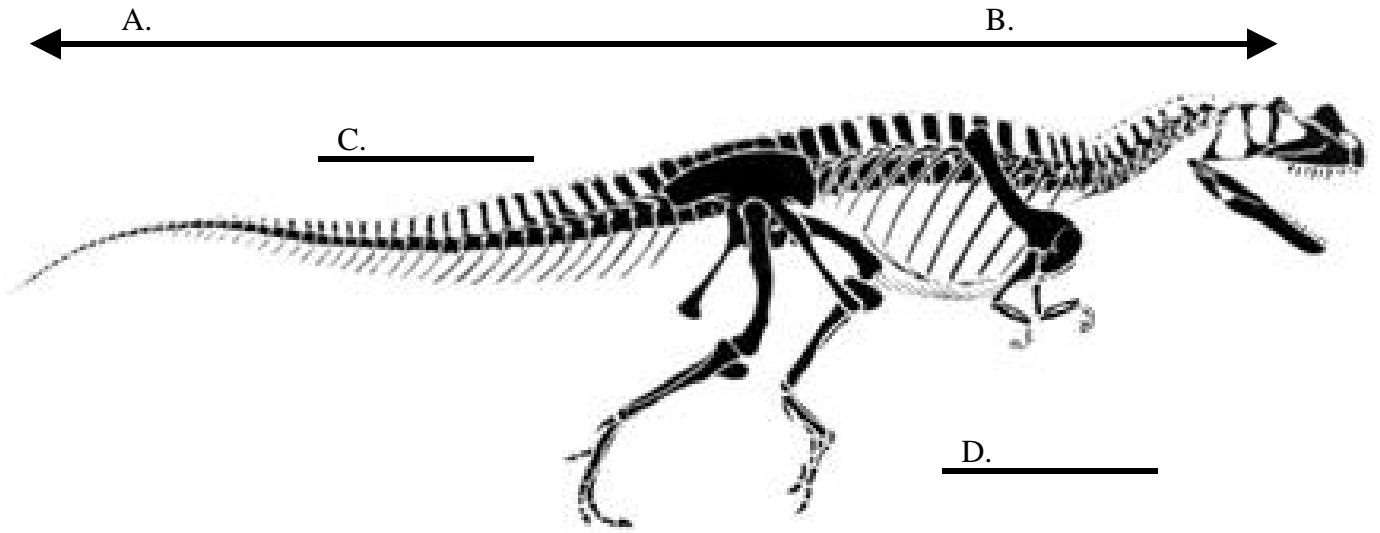
Using the diagrams in the textbook, label the following bones and landmarks of the skull indicated by the arrows above. Write the name or number of the landmark or bone at the end of the arrow.

- 1. Naris 2. Orbit 3. Maxilla 4. Dentary 5. Antorbital Fenestra 6. Premaxilla
- 7. Nasal 8. Lacrimal 9. Jugal 10. Superior Temporal Fenestra
- 11. Infratemporal Fenestra 12. Mandibular Fenestra



In the skeleton above, identify by name or number the following bones:

- | | | |
|-------------------------|-----------------------|-----------------------|
| 13. A Cervical Vertebra | 14. A Dorsal Vertebra | 15. A Sacral Vertebra |
| 16. A Caudal Vertebra | 17. Scapula | 18. Coracoid |
| 19. Ilium | 20. Ischium | 21. Pubis |
| 22. Humerus | 23. Femur | 24. Tibia |
| 25. Fibula | 26. Ulna | 27. Metatarsus |
| 28. Manus | 29. Chevron | 30. Gastralia |



Label the following on the above *Ceratosaurus nasicornis*.

31. Anterior

32. Dorsal

33. Posterior

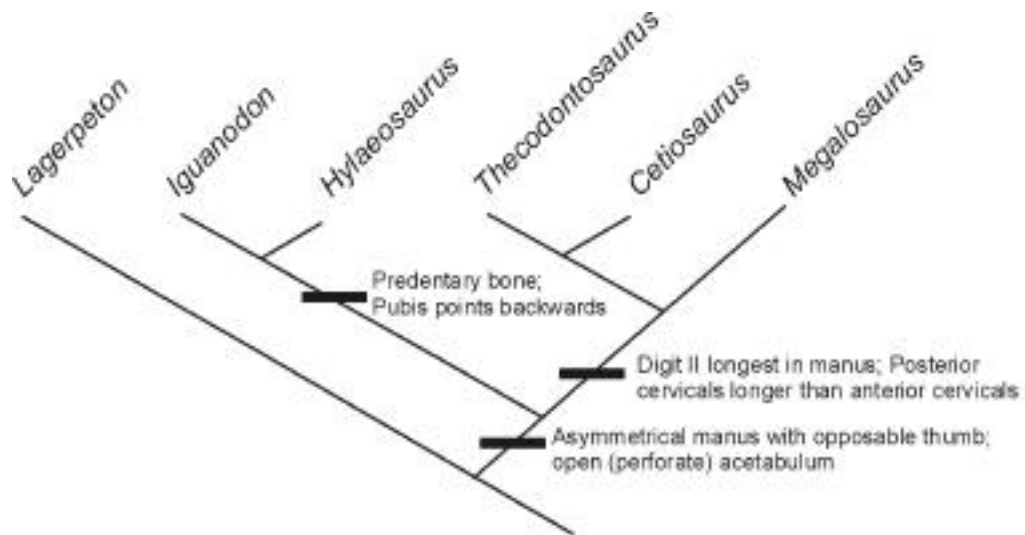
34. Ventral

35. *Allosaurus fragilis* was named in 1877; *Creosaurus atrox* was named in 1878. If later studies indicate that these are two different species within the **same genus**, what would be the name of these two species?

36. If, instead, *Allosaurus fragilis* and *Creosaurus atrox* are discovered to be different specimens of the same **species**, what would be the name of this species ?

BONUS –

What is the only correct abbreviation of *Allosaurus fragilis* ?



37. What is the sister group of *Hylaeosaurus*? _____

38. The clade **Ornithischia** is defined as *Iguanodon* and all taxa sharing a more recent common ancestor with *Iguanodon* than with *Megalosaurus*. What taxa in the above cladogram are ornithischians?

39. The clade **Saurischia** is defined as *Megalosaurus* and all taxa sharing a more recent common ancestor with *Megalosaurus* than with *Iguanodon*. What taxa in the above cladogram are saurischians?

40. What is the sister group to the clade comprised of *Iguanodon* + *Hylaeosaurus*?