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## A Text Book of Chordates

A. Thangamani      S. Prasanna kumar      L.M. Narayanan      Dr.N. Arumugam

ISBN 9788189941017

Pages : 700      Figures : 800      Price : Rs.320

### Contents

**Taxonomy and Representative Types:** 1. Introduction, 2. Protochordata, 3. Agnatha, 4. Pisces, 5. Amphibia, 6. Reptilia, 7. Aves, 8. Mammalia **Detailed Study of Types :** 1. Balanoglossus, 2. Ascidian, 3. Branchiostoma, 4. Petromyzon, 5. Shark, 6. Frog, 7. Calotes, 8. Pigeon, 9. Rabbit **Comparative Anatomy:** 1. Integumentary Derivatives, 2. Comparison of Brain, 3. Comparison of Fore limbs. 4. Comparison of Hind limbs, 5. Comparison of Pectoral girdles, 6. Comparison of pelvic girdles, 7. Endocrinal glands, 8. Flying Vertebrates **General Topics:** 1. Origin of Chordates, 2. Neoteny in Chordates, 3. Balanoglossus is an Invertebrate- Chordate, 4. Balanoglossus is the forerunner of Chordates, 5. Holocephali, 6. Dipnoi, 7. Fins of Fishes, 8. Scales of Fishes, 9. Air Bladder in Fishes, 10. Accessory Respiratory Organs in Fishes, 11. Origin of fishes, 12. Migration of fishes, 13. Economic Importance of Fishes, 14. Parental Care in Fishes , 15. Deep Sea Fishes, 16. Origin of Amphibia, 17. Gymnophiona or Apoda, 18. Parental care in Amphibia, 19. Neoteny in Amphibia, 20. Origin of Reptilia, 21. Mesozoic Reptiles, 22. Golden age of Reptiles, 23. Rhynchocephalia, 24. Temporal Arcades and Fossae, 25. Poisonous Snakes, 26. Poison Apparatus, 27. Biting Mechanism, 28. First Aid, 29. Colonization of Reptiles on Land, 30. Origin of Birds, 31. Ratitae, 32. Palate in Birds, 33. Adaptation of Birds, 34. Migration of Birds, 35. Birds are Glorified Reptiles, 36. Origin of Mammals, 37. Prototheria, 38. Prototheria are unfinished Mammals, 39. Metatheria, 40. Dentition in Mammals, 41. Stomach in Mammals, 42. Placenta in Mammals, 43. Aquatic Mammals, 44. Adaptation of aquatic mammal, 45. Flying Vertebrates, 46. Migration of Animals **Chordate Phylogeny:** 1. Introduction, 2. Geological time scale, 3. Origin of Chordates, 4. Origin of Vertebrates, 5. Ostracoderms, 6. Placoderms, 7. Holocephalii, 8. Dipnoi, 9. Origin of Paired Appendages, 10. Origin of Amphibia, 11. Apoda, 12. Origin of Reptilia, 13. Evolution of Reptilia, 14. Golden age of Reptiles, 15. Rhynchocephalia, 16. Origin of Flight, 17. Birds are Glorified reptiles, 18. Ratitae, 19. Origin of Mammals, 20. Prototheria, 21. Metatheria.

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N.C Nair      S. Leelavathy      N. Soundara Pandian      T. Murugan      Dr.N. Arumugam

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