

PACE-IIT & MEDICAL

ANDHERI / BORIVALI / DADAR / CHEMBUR / THANE / MULUND/NERUL / POWAI

NCERT

TW TEST

MARKS: 240 (+4,-1)

TIME: 45 min

Animal Kingdom (Chordates)

DATE: 01-10-2019

ANSWER KEY

- | | | | | |
|---------|---------|---------|---------|----------|
| 1. (B) | 2. (B) | 3. (C) | 4. (C) | 5. (B) |
| 6. (D) | 7. (A) | 8. (B) | 9. (D) | 10. (B) |
| 11. (C) | 12. (B) | 13. (C) | 14. (B) | 15. (C). |
| 16. (D) | 17. (B) | 18. (C) | 19. (C) | 20. (D) |
| 21. (A) | 22. (C) | 23. (A) | 24. (C) | 25. (D) |
| 26. (C) | 27. (B) | 28. (B) | 29. (A) | 30. (C) |
| 31. (D) | 32. (C) | 33. (D) | 34. (B) | 35. (A) |
| 36. (C) | 37. (C) | 38. (A) | 39. (C) | 40. (D) |
| 41. (C) | 42. (B) | 43. (C) | 44. (A) | 45. (C) |
| 46. (D) | 47. (C) | 48. (A) | 49. (B) | 50. (A) |
| 51. (A) | 52. (C) | 53. (A) | 54. (B) | 55. (B) |
| 56. (C) | 57. (B) | 58. (A) | 59. (C) | 60. (D) |

TWT – 04 (ZOOLOGY)

(ANIMAL KINGDOM –Chordates: Cephalochordata, Urochordata, Cyclostoma, Pisces & Amphibia)

HINTS & SOLUTION

1. Notochord is hollow and dorsal in chordates and solid and ventral in non chordates.
2. Branchiostomes or Lancelet or Amphioxus belongs to Cephalochordata.
3. Heart is ventral in chordates.
4. Petromyzon i.e a cyclostome has unpaired fins and has closed circulatory system.
6. Amphioxus is the first animal to show all chordate like characteristics.
7. Chordates include both invertebrates and vertebrates.
8. Cyclostomes have 5-15 pairs of gill slits.
10. Nerve cord is dorsal to Notochord during embryonic life.
11. Petromyzon belongs to cyclostomata class of Agnatha.
12. Notochord gives rise to cartilaginous vertebral column.
13. Organ of Bojanas is in Molluscs, Nephridia is in annelids and Nephron is a unit of organ kidney.
14. Cyclostomes migrate to fresh water for spawning.
15. All other besides Osteichthyes are exclusively marine.
16. Myxine has glandular skin devoid of scales.
19. Rohu (*Labeo rohita*) is a fresh water edible fish
20. Sea fan- Cnidaria (non-chordate), Sea pen- Cnidaria (non-chordate), Sea cucumber- echinodermata (non-chordate), Sea horse-osteichthyes (chordates)
21. Air bladder present in osteichthyes provide buoyancy & this they do not need to swim constantly
22. *Trygon* is a sting ray & *Torpedo* is an electric ray
23. *Petromyzon* is a cyclostome (Agnatha)
24. Cartilaginous fishes have Placoid scales while Bony fishes have cycloid/ctenoid scales.
25. *Betta* & *Pterophyllum* are aquarium fishes
26. Amphibians do not have scales over skin
27. *Exocoetus*, *Clarias*, *Catla*, *Betta*, *Labeo*-these are bony fishes & they have terminal mouth
30. *Catla* is an osteichthyes having direct development
Trygon and *Carcharodon* – Chondrichthyes (No operculum)
Scoliodon – Dog fish
33. *Ichthyophis*- Limbless amphibia
36. Salamander is an amphibian while other 3 are reptiles
37. Fishes (bony & cartilaginous) have dermal scales while Reptiles & birds have epidermal scales
38. Pisces is superclass while the rest are classes.
40. Cyclostomes, chondrichthyes and osteichthyes have a two chambered venous heart.
43. Internal fertilization is seen in Chondrichthyes.
External fertilization is seen in Cyclostomata, Osteichthyes and Amphibia
Scales are seen in Chondrichthyes and Osteichthyes
46. Frog belong to family Ranidae and toads to Bufonidae
Frogs have brightly coloured skin while toads have dull skin

Frogs lay eggs in clusters while toads lay eggs in long string

47. Urochordates, cephalochordates and chondrichthyes are exclusively marine.
54. Protopterus and Lepidosiren are common lung fishes.
55. Only vertebrates have kidneys as their excretory organs.