

- The trisomy for 21<sup>st</sup> chromosome is called
  - Down's syndrome
  - Turner's syndrome
  - Sickle cell anaemia
  - Klinefelter's syndrome
- Which of the following is the largest gland in an adult man ?
  - Thymus
  - Liver
  - Thyroid
  - Pancreas
- In *Pheretima*, septa are absent between which segments ?
  - 3/4 and 9/10
  - 4/5 and 8/9
  - 5/6 and 7/8
  - 7/8 and 6/7
- During emergency which of the following hormone is secreted?
  - Aldosterone
  - Thyroxine
  - Adrenalin
  - Calcitonin
- In cockroach, larval and nymphal characters are maintained by
  - ecdysone
  - salivary glands
  - parotid gland
  - juvenile hormone
- Which of the following is a transparent tissue?
  - Tendon
  - Fibrous cartilage
  - Hyaline cartilage
  - All of these
- Rh factor is present in
  - all vertebrates
  - all mammals
  - all reptiles
  - man and rhesus monkey only



8. In rabbit, end of a long bone is connected in another by  
 (a) tendon (b) ligaments  
 (c) muscle (d) cartilage
9. Which of the following cell type is capable of giving rise to other cell types in sponges?  
 (a) Thesocytes (b) Pinacocytes  
 (c) Cnidocytes (d) Archaeocytes
10. Thigmotaxis is not shown by  
 (a) *Paramecium* (b) *Amoeba*  
 (c) *Ascaris* (d) *Hydra*
11. Which is correctly matched?  
 (a) Apiculture — Honey bee  
 (b) Pisciculture — Silk moth  
 (c) Sericulture — Fish  
 (d) Aquaculture — Mosquito
12. Animals having a built in thermostat to maintain constant body temperature are known as  
 (a) biothermic (b) poikilothermic  
 (c) oligothermic (d) homeothermic
13. The intermediate host of *Schistosoma* is  
 (a) snail (b) mosquito  
 (c) housefly (d) sheep
14. The vitamin which is essential for blood clotting is  
 (a) vitamin-A (b) vitamin-B  
 (c) vitamin-C (d) vitamin-K
15. The female genital pore of *Pheretima posthuma* located upon the segment  
 (a) 14<sup>th</sup> (b) 16<sup>th</sup>  
 (c) 18<sup>th</sup> (d) 15<sup>th</sup>
16. Polyp phase is absent in  
 (a) *Hydra* (b) *Aurelia*  
 (c) *Physalia* (d) *Obelia*
17. In frog heart, there are cardiac muscles which consists of fibres called  
 (a) Purkinje fibres (b) myonemes  
 (c) telodendria (d) columnae carnae
18. Malpighian tubules are  
 (a) excretory organs of insects  
 (b) excretory organs of frog  
 (c) respiratory organs of insects  
 (d) endocrine glands of insects
19. LH and FSH are collectively called  
 (a) oxytocin (b) somatotropins  
 (c) luteotropic (d) gonadotropins
20. Which of the following provides most evident proof of evolution?  
 (a) Fossils (b) Morphology  
 (c) Embryo (d) Vestigial organs
21. In Mollusca, eye is present over a stalk, called  
 (a) ostracum (b) operculum  
 (c) ommatophores (d) osphradium
22. Turbellarians are free living  
 (a) nematodes (b) cestodes  
 (c) flat worms (d) trematodes
23. The characteristic larva of phylum—  
 'Coelenterata' is  
 (a) planula (b) cysticercus  
 (c) rhabdiform (d) wriggler
24. In rabbit, head of epididymis present at the head of the testis is called  
 (a) vas deferens (b) cauda epididymis  
 (c) gubernaculum (d) caput epididymis
25. In blood, CO<sub>2</sub> is transported majorly as  
 (a) sodium carbonate  
 (b) carboxyhaemoglobin  
 (c) bicarbonate  
 (d) CO<sub>2</sub> as such
26. Animals undergoes inactive stage during winter, is known as  
 (a) aestivation (b) hibernation  
 (c) adaptation (d) acclimatization
27. Kupffer cells are present in  
 (a) liver (b) small intestine  
 (c) pancreas (d) thyroid gland
28. The embryo at 16 celled stage is known as  
 (a) morula (b) gastrula  
 (c) blastula (d) blastomere
29. Contractile vacuole in protozoan *Amoeba* is meant for  
 (a) respiration (b) excretion  
 (c) locomotion (d) osmoregulation
30. Which of the following is important for muscle contraction and nerve impulse transmission?  
 (a) Ca<sup>2+</sup> ions (b) Mg<sup>2+</sup> ions  
 (c) Both (a) and (b) (d) Fe<sup>2+</sup> ions
31. Which one is component of Ornithine cycle?  
 (a) Ornithine, citrulline and alanine  
 (b) Ornithine, citrulline and arginine  
 (c) Amino acid are not used  
 (d) Ornithine, citrulline and fumaric acid
32. Chromosome complement with 2n – 1 is called  
 (a) monosomy (b) nullisomy  
 (c) trisomy (d) tetrasomy
33. Which of the following is not vestigial in man?  
 (a) Tail vertebrae  
 (b) Nails  
 (c) Nictitating membrane  
 (d) Vermiform appendix



34. Small fish get stuck near the bottom of a shark and derives its nutrition from it. This kind of association is called as  
(a) antibiosis (b) commensalism  
(c) predation (d) parasitism
35. The group of Anamniota includes  
(a) reptiles and birds  
(b) birds and mammals  
(c) fishes and amphibians  
(d) reptiles and mammals
36. The excretory material of bony fish is  
(a) urea (b) protein  
(c) ammonia (d) amino acid
37. The leucocytes contain which of the following in large quantity?  
(a) Basophils (b) Neutrophils  
(c) Eosinophils (d) Monocytes
38. During inspiration, the diaphragm  
(a) expands  
(b) shows no change  
(c) contracts and flattens  
(d) relaxes to become dome-shaped
39. The function of pineal body is to  
(a) lighten the skin colours  
(b) control sexual behaviour  
(c) regulates the period of puberty  
(d) All of the above
40. Synsacrum of fowl consists of about  
(a) 29 vertebrae (b) 3 vertebrae  
(c) 16 vertebrae (d) single vertebrae