



# General Biology Notes for IAS and PCS

## Chapter no: 3 TAXONOMY

<b>Taxonomy</b>	
1.	All unicellular organism reproduce by asexual method like amoeba reproduces by fission process
2.	Warm – blooded animals like – Mammals, birds able to keep their body at constant temperature by generating their own heat when they are in cooler environment. This process is called “homeostasis”
	<ul style="list-style-type: none"> <li>➤ Oviparous animal lay eggs</li> <li>➤ All echinoderms (Phylum) are not oviparous, some viviparous (child) and Echinoderms are marine invertebrates. They include sea stars, sand dollars, and feather stars.</li> <li>➤ Roundworm has no circulation system</li> <li>➤ In bony fishes, swim bladder is usually present.</li> <li>➤ In cartilaginous fishes, fertilization is internal.</li> </ul>
3.	Starfish or sea stars – is not fish.
4.	True fish or catfish –is sea horses
	<ul style="list-style-type: none"> <li>➤ Largest Mammals – whale (toothed – whales) is viviparous</li> <li>➤ Mammals capable of flying is Bat</li> <li>➤ Aves group – Crow, Eagle, Parrot</li> <li>➤ Mammals – Sea cow, Sealion, Dolphin (National acuities animal of India) and Seal</li> </ul>
5.	Amphibians mean animals those living both on water and land
	<ul style="list-style-type: none"> <li>➤ Desire to learn is separate human from apes</li> <li>➤ Apes – Gibbon, Gorilla or orangutan</li> <li>➤ Langur -Not ape</li> <li>➤ Gibbon -Smallest man like ape</li> </ul>
6.	Nilgai is diurnal (active mainly during the day)
7.	Octopus is mollusks. It is also called “devil fish” with 2 eyes & 4 – pair of arms. It is bilateral symmetric.
8.	Largest invertebrate – Squid (10 arms)
9.	Leg horn is variety of Fowl (Type of bird)
10.	Ticks and mites are actually – Insects
11.	Glow worm is insect emit light
	<ul style="list-style-type: none"> <li>➤ Spider belong to “Arachnids” not insect.</li> <li>➤ Spider are different from insect because they have 8 legs</li> </ul>
12.	Nocturnal – who active at night ex. Mosquito, Bats, Owl
13.	Mosquito only female suck blood and females have bigger wings than males.
14.	Animals stores water in the intestine – Camel
	<ul style="list-style-type: none"> <li>➤ Poison gland of snake is homologous to Salivary gland of vertebrates.</li> <li>➤ Poisonous fangs of a snake are modified form of Maxillary teeth.</li> </ul>
15.	Lithophytes -Plants grows on rocks



16. Insectivorous plant or Pitcher plant – becomes modified into a pitcher leaf. These plant called “Nepenthes” and Nepenthes are rare & endangered plant is found in Meghalaya
<ul style="list-style-type: none"><li>➤ Yeast – fermentation</li><li>➤ Aloe Vera – Angiosperm</li><li>➤ Casein – Milk protein</li></ul>
17. Turmeric obtain from stem and Eatable part of turmeric plant is steam
18. Type of fruit in which litchi can be placed is Nut
19. In Bisexual flower, if androecium and gynoecium mature at different times. This phenomenon called “Dichogamy”.
20. Sweet Potato is dicotylendnous plant (vegetables modified root) and storage organ of sweet potato is root.
21. Modified steam (their storage organization)-Sugarcane, Potato, Ginger
<ul style="list-style-type: none"><li>➤ Rhizome – Ginger</li><li>➤ Tuber – Potato</li><li>➤ Bulb – Garlic</li><li>➤ Corn – Jimmykand – Suran</li></ul>
22. Mycorrhiza is symbiotic association between fungus & roots of a vascular plant. N <sub>2</sub> fixation bacteria present in Nodules of root of leguminous plant are – symbiotic relation Some blue green algae fixation N <sub>2</sub> (Nitrogen)
23. Peanut plant is Herb.
24. Cloves is aromatic closed and dried flower bud which used in Ayurveda medicine.
<ul style="list-style-type: none"><li>➤ Ginger – Rhizome</li><li>➤ Saffron – flower</li><li>➤ Jute – stem</li><li>➤ Coconut – endosperm</li><li>➤ Onion – fleshy leaves</li><li>➤ Sugarcane, potato, ginger-modified stem</li><li>➤ Sweet Potato – root</li></ul>
25. Lady finger is fruit
26. A plant bud is embryonic shoot
27. Cork is obtain from oak tree (Quercus – Suber)
28. Odious smell of garlic is due to Sulphur compound
29. Peeling of onion tears release due to sulfenic acid
30. Most important part of plant in term of life cycle – flower
31. Pungency in chilies is due to – Capsaicin
32. At which state in its life cycle, does the Silkworm yield the fiber of commerce – Pupa
33. Silkworm graves on Mulberry leaves
34. Quinine is major drugs treat in Malaria extract from bark of cinchona tree
35. Arteether medicine cure Malaria obtained from seeded plant.
36. The Drug Quinine obtained from bark of Cinchona was used for treatment Malaria. The synthetic drug which replaced the natural product is Chloroquine.



37. Diatoms are useful in forensic studies. It significance in diagnosis death by drowning. It is photosynthetic alga
38. Mulberry fruits is sorosis
39. Cotton is not product of plant stem
40. Leg – hemoglobin is found in legume root nodules
41. Manmade – cereal – Triticale
42. Canola refer special type of oil seed mustard varieties breed for human consumption – oil has very low uric acid contain.
43. Bacteria can be seen by compound microscope.
44. “Spongy Tissue” is serious disorder hampering the export of Mango variety. It is Alphonso.
45. Same bacteria can synthesize their own food & found any where
46. Desert have phreatophytes i.e. Plant have long (20 – 30ft) top root.
47. Plant adopted to dry climate are known as “Xerophyte”.
48. Desert plant are generally – succulent (drought-resistant plants in which the leaves, stem, or roots have become more than usually fleshy by the development of water-storing tissue)
49. Plants which grows on saline salts are Halophytes.
50. Weeping Jelly is due excess of acid.
51. Dormancy breaking hormones is cytokinine, gibberline, and ethylene.
52. Epiphytes are plants depend on other plant for Mechanical support.
53. A – Hydrophyte is aquatic plant.
54. Radiant energy absorbed by plants result in Photolysis of water.
55. Tropical level – I indicate “Green Plant”.
56. A gp of Archaeobacterial is used in production of Methane.
57. Most insect respire through – Tracheal system.
58. Redness of apple due to Anthocyanin & red colour in tomato is due to lycopene. Yellow colour of papaya is due to – caricaxznthin
59. Yeast is fungus, Mushroom is fungi & used as food.
60. Gp of living being belong to same species – chines, America, Indians, Black Africa.
61. Major component of cotton is – Cellulose
62. Lichens is complex creature, made from fungus & Algae
63. Noscapine is obtained from Poppy.
64. Heroin is obtained from opium poppy.
65. Morphine from fruit.
66. Opium is obtained from Latex from unripe fruit.
67. Most of constituent of opium is Morphine and Unripe fruit – opium – Morphine.



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