



# GK & Science One-liners Biology PDF (English)

## Biology

- 1. Widal test is performed for** - Typhoid fever
  - The Widal test method is used to help make a presumptive diagnosis of enteric fever, also known as typhoid fever.
- 2. What does DNA stand for in biology?** - Deoxyribonucleic Acid
  - It is a long molecule that contains our unique genetic code.
  - It is a molecule composed of two chains that coil around each other to form a double helix carrying genetic instructions for the development, functioning, growth and reproduction of all known organisms and many viruses.
  - American biologist **James Watson** and English physicist **Francis Crick** is considered to be inventor of DNA.
- 3. Myrmecology is study of:** Ants
  - Myrmecology is the branch of entomology that deals with ants.
- 4. The Sigmoid Colon is part of:** Large Intestine
  - The sigmoid colon is a short curving of the colon just before the rectum. It is part of the large Intestine.
- 5. Biologically, marriage should be avoided in between:** Rh+ male and Rh- female
  - Rh factor is a protein found in blood. A person having Rh factor in blood is called Rh positive whereas that who does not carry this protein in the blood is called Rh negative. Marriage should be avoided in between Rh negative female & Rh positive male. This can be fatal for the mother as well as the baby of such parents.
- 6. Most fish do not sink in water because of the presence of the:** Swim bladder and Air bladder
  - Swim bladder help fishes to swim in water but air bladder helps to float because it contains air.
- 7. Who discovered the vaccine for small pox:** Edward Jenner
  - Smallpox vaccine, the first successful vaccine to be developed, was introduced by Edward Jenner in 1796.
- 8. Who invented polio vaccine (oral):** Albert Sabin
  - The first polio vaccine was the inactivated polio vaccine. It was developed by Jonas Salk and came into use in 1955. The oral polio vaccine was developed by Albert Sabin and came into commercial use in 1961.
- 9. What is the normal blood sugar level of a human being** -120-150 mg/dl
- 10. What is the chemical name of Vitamin-B7-** Biotin
  - Vitamin-B1    Thiamine
  - Vitamin-B2    Riboflavin
  - Vitamin-B6    Pyridoxine
  - Vitamin-B7    Biotin
- 11. In which colour of light, the rate of photosynthesis is maximum-** Red light
  - The rate of Photosynthesis is higher in red light while the rate of absorption is highest of blue light
- 12. What is the study of fermentation called-** Zymology
  - **Ontology**- The branch of metaphysics dealing with the nature of being.
  - **Mycology**- Study of fungus
  - **Apiology**- Study of Bees
- 13. Mad Hatter's Disease is caused by poisoning of** - Mercury Poisoning
  - Mad Hitler's disease is a neurological disorder which affects the whole central nervous system
  - Mercury exposure at high levels can harm the brain, heart, kidneys, lungs, and immune system of people of all ages.



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**14. White Lung disease is caused by prolonged inhalation of:** Asbestos fibre

- Asbestosis is also known as White lung disease.
- It is mainly prevalent in mining, construction, manufacturing of insulation, fireproofing, cement products etc.
- Persons with advanced cases of the disease have a dry cough.
- There is no effective treatment for asbestosis.

**15. Siderosis is caused by:** deposition of Iron in body tissues

- It is also known as pulmonary siderosis and is also a form of Pneumoconiosis.
- Its symptom appears in long range time. There is no cure for pulmonary siderosis.

**16. What is controlled by Statin medicines?** - Statin medicines are used to reduce high risk of Cardiovascular or Heart diseases

**17. Who is father of taxonomy** - Carl Linnaeus

- Taxonomy is the system of classifying and naming organisms.
- It is the way living beings are divided up into Kingdom, Phylum, Class, Order, Family, Genus, Species.

**18. In aerobic conditions Glucose is converted into:** Pyruvate

- In aerobic conditions, glycolysis converts one molecule of glucose into two molecules of pyruvate (pyruvic acid) and generates energy in the form of two net molecules of ATP.
- Glycolysis takes place in the cytosol of cells in all living organisms.

**19. Which vaccine is used against tuberculosis** – BCG Vaccine

- BCG or Bacillus Calmette Guerin vaccine is used for treatment of Tuberculosis. The vaccine is given by injection into the skin.

**20. The Sweat glands are present in which part of the human body?** - Skin

- The sweat Glands are type of exocrine glands and are present in Skin. These glands produce sweat by way of a duct.
- There are two main types of sweat glands that differ in their structure, function, secretory product, mechanism of excretion, etc.
- These are – **Eccrine Sweat Glands and Apocrine Sweat Glands.**

**21. The scientific name of Tomato is:** Lycopersicon esculentum

**22. Which tissue transport food to various parts of a plant?** - Phloem

- Xylem transport water from roots to stems in plants.
- Phloem is the vascular tissue responsible for the transport of food from source tissues.

**23. The specific role of 'Vitamin K' is in the synthesis of:** proteins that are prerequisites for blood coagulations

- Prothrombin is an essential factor responsible for the coagulation of blood.

**24. Bio-fertilizers convert nitrogen to:** Ammonia

- Nitrogen fixation is a process by which nitrogen in the Earth's atmosphere is converted into ammonia (NH<sub>3</sub>) or other molecules available to living organisms.
- Nitrogen fixation is carried out naturally in the soil by nitrogen-fixing bacteria such as Azotobacter.

**25. Morphology of Chromosomes can be best studied at** – Metaphase

- Metaphase is a stage of mitosis in the eukaryotic cell cycle in which chromosomes are at their second-most condensed and coiled stage (they are at their most condensed in anaphase).
- These chromosomes, carrying genetic information, align in the equator of the cell before being separated into each of the two daughter cells.



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**26. Increased RBC's in the blood leads to a condition called - Polycythemia**

- People with this condition have thicker blood, which makes it harder for blood to circulate around the body.

**27. Lacrymal glands are situated in the - Eye orbit**

- These glands secrete the aqueous layer of the tear film called lacrimal fluid, which moisten the surface of the skin, lubricate eyelids and wash away foreign bodies.

**28. The locomotory organ of Amoeba is - Pseudopodia**

**29. What is the busiest muscle in the human body- Eye Muscle**

**30. What is the scientific name of Giant panda? - Ailuropodamelanoleuca**

- **SOME COMMONLY USED ZOOLOGICAL NAMES:**

Blue whale-Balaenoptera musculus  
Mouse-Mus musculus  
Monarch butterfly-Danaus plexippus  
Lion-Pantheraleo

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