

## Answers for Quiz - 2

### 1. (D) Linus Pauling

The 3D structure (Double Helical) of DNA was discovered by J. D. Watson and Francis Crick. The Picture of the DNA by X-Ray Crystallography was taken by Rosalind Franklin and Maurice Wilkins.

### 2. (D) Leber's Hereditary Optic Neuropathy

All disease are due to abnormal function of the gene. The gene for "**Leber's Hereditary Optic Neuropathy**" is present in **Mitochondria** and rest are in Chromosome.

### 3. (B) Selenocysteine

one-letter symbol **U** is not used for the Amino Acid in general (as in most Biochemistry books) but in **Bioinformatics** it is used for **Selenocysteine** and three letter code is **Sec**.

### 4. (B) 30%

In Human Genome only Genes are about 3% but **Gene Related Sequence** which consist of promoter, regulator, introns and other elements with genes are about **30%**.

### 5. (A) FAST Alignment

### 6. (C) tumor suppressor gene

p53 is tumor suppressor gene.

### 7. (B) Blue Green Algae

Glycolysis is occurred in all organism except Blue Green Algae. (Please Refer Outlines of Biochemistry 5/E by Conn and Stumpf, Page No. 344)

### 8 (C) GATE

All Entrance Exam is for Fellowship for Research but GATE is mainly for admission in M. Tech.

### 9. (B) about $1.3 * 10^7$ bp

### 10. C) Bacteria