

Name: _____	Subject: Biology	Class: 10 th	Time: 80 minutes	Total Marks:	40
Chapter No.6	MJDexpert.com			Obtained marks	

Note: Please attempt any 10 short questions from Question 2. Also, attempt both parts (a and b) of Question 3. Cutting and removal of any content is strictly prohibited.

Objective-Section

Q. 1 Encircle the correct answer. (10x1=10)

- Branch of Biology in which we study about inheritance:
A) Pharmacology B) Physiology C) Ecology D) Genetics
- Genes consist of:
A) RNA B) mRNA C) Protein D) DNA
- In a nucleosome, DNA is wrapped around a protein named:
A) Insulin B) Interferon C) Histone D) Hemoglobin
- James Watson and Francis Crick proposed the structure of DNA in:
A) 1953 B) 1963 C) 1933 D) 1922
- ____ hydrogen bonds are present between cytosine and guanine:
A) 2 B) 3 C) 4 D) 5
- Inherited characters are called:
A) Traits B) Genetics C) Fertilization D) Genes
- The process of protein formation:
A) Combination B) Replication C) Transcription D) Translation
- Expression of gene in the form of trait is called:
A) Phenotype B) Karyotype C) Genotype D) Physical power
- What is the meaning of the term "true breeding"?
A) Heterozygous B) Homologous C) Homozygous D) Heterologous
- The book "Natural Selection" written by Darwin was published in:
A) 1859 B) 1860 C) 1959 D) 1960

Subjective-Section

Q.2 Write short answers of any ten of the following questions: (10x2=20)

- Define Genetics.
- Write the chemical structure of a chromosome.
- How does DNA of a chromosome work?
- Define Allele and give an example.
- What is meant by Genotype? Write the names of its types.
- Differentiate between dominant allele and recessive allele.
- Define Monohybrid and Dihybrid cross.
- What is the Punnett square? Tell its use.
- Explain Continuous and Discontinuous Variations.
- What is the theory of special creation?
- What is the importance of artificial selection (or selective breeding)?
- How many important processes take place in organic evolution?

Q.No.3 Long Question:

(5+5=10)

- Write a note on replication of DNA.
- Prove that variations lead to evolution.