HEREDITY & EVOLUTION EXERCISE # 1

A.	Multiple Choice Type Questions	Q.9	Palaentology is study of -
Q.1	Mendel worked on - (A) Pisum (B) Solanum		(A) Fossils (B) Bones (C) Birds (D) Embryo
	(C) Lathyrus (D) Dolichos	Q.10	'Descent with modification' is the central
Q.2	Father of genetics is - (A) Morgan (B) Mendel (C) Darwin (D) Hutchinson		theme of - (A) Recapitulation (B) Genetics (C) Evolution (D) Biogenesis
Q.3	A gamete contains - (A) Two alleles of a gene (B) One allele of a gene (C) All alleles of a gene (D) None of the above	Q.11	The book "Origin of Species by Natural Selection" was written by - (A) Oparin (B) Wallace (C) Darwin (D) Darwin and Wellace
Q.4	A breeding experiment dealing with a signle trait is called - (A) Dihybrid (B) Monohybrid (C) Monozygous (D) Heterozygous	Q.12	(D) Darwin and Wallace Sudden inheritable change is called - (A) Recombination (B) Mutation (C) Natural selection (D) Segregation
Q.5	Mendel noted as many pairs of contrasting traits in pea plants - (A) 2 (B) 5 (C) 7 (D) 9	Q.13	The ultimate source of variation is - (A) Natural slection
Q.6	Which one is not a vestigial organ in man? (A) Vermiform appendix (B) Epiglottis (C) Muscles of ear pinna (D) Nictitating membrane	Q.14	(B) Mutation (C) Sexual reproduction (D) None of these Inheritance of acquired characters was
Q.7	The wings of bat, locust and pigeon are the example of - (A) Homologous organs		proposed by - (A) Darwin (B) Lamarck (C) Wallace (D) Oparin
	(B) Analogous organs(C) Vestigial organs(D) Exoskeleton	Q.15	Vestigal organs are - (A) Primitive organs (B) Preimordial organs
Q.8	Homologous structure are - (A) Dissimilar in origin, similar in function (B) Dissimilar in origin and function both (C) Similar in origin and similar in function		(C) Organs reduced due to disuse (D) Organs marked only in embryonic stage

(D) Similar in origin and dissimilar in function

EXERCISE #2

	(CODE) NAME II SECTION OF ST	Q.12	Define genetic drift
A.	Very Short Answer Type Questions	Q.13	What are acquired characters?
Q.1	Define inherited traits.		
Q.2	Give two examples of inherited traits.	В.	Short Answer Type Questions
Q.3	Who is known as father of genetics?	Q.14	Distinguish between homologous and analogous organs.
Q.4	Name the plant on which Mendel performed his experiments.	Q.15	Explain the process of fossil formation.
Q.5	How many characters did Mendel study?	Q.16	What are inherited traits? Give three examples.
Q.6	Which is dominant-Round or wrinkled seed shape?	Q.17	Mention any three pairs of contrasting characters on which Mendel performed his experiments.
Q.7	Define monohybrid cross.	Q.18	Explain in brief the procedure adopted by Mendel during his experimentation.
Q.8	Define dihybrid cross.	Q.19	How is sex of the child determined in human
Q.9	What is the literal meaning of the word		beings?
	'evolution.'	Q.20	Explain how do the traits get expressed?
Q.10	What is organic evolution?		
Q.11	Mention two main causes of variation during reproduction.	Q.21	Give two examples to explain that inheritance of acquired characters does not take place.