Total No. of Printed Pages:2

SUBJECT CODE NO:- B-2172 FACULTY OF SCIENCE AND TECHNOLOGY B.Sc. F.Y (Sem.-II) Examination OCT/NOV 2019 Zoology Paper-V Genetics – I

[Time:	1:30 Minutes]	[Max.Marks:5
N.B	Please check whether you have got the right question paper. 1) Attempt all questions. 2) Illustrate your answer with suitable labeled diagram. Section A	
Q.1	Define genetics and variation. Explain law of Heredity. OR	20
	What is epistasis? Explain it with suitable example.	
Q.2	Explain chromosomal aberration (structural and numerical) OR	20
	Write short notes on (any four) a) X-linked inheritance b) Complementary gene c) Colorblindness d) ABO blood group in man e) Gynandro morphs f) CO ₂ sensitivity	
Q.3	 Select and write correct answer from the given alternatives in each sub question. 1) Mendel chose for his experiments theplant a) Bean b) pea c) rose d) cucumber 2) Which of the following blood groups belongs to the category of universal recipier a) 'A' b) 'AB' c) 'B' d) 'O' 	10 nt?
	3) Extra nuclear inheritance occurs in a) Killer paramecium b) killer amoeba c) euglena d) hydra	
	4) In a cross of chicken with a rose comb to one with a Pea comb produces in f1 gen a) Walnut b) rose c) single d) Pea	eration
	5) The concept of sudden genetic change which breeds true in an organism is visual principle ofa) Natural selection b) heridity c) variation d) mutation	ised in
	6) Mutation is a source of a) Evolution b) variation c) adaptation d) all of the above	

1

- 7) Multiple allelism controls inheritance of -----a) Blood group b) phenyl ketonuria c) colorblindness d) sickle cell anemia
- 8) A gene suppress its effects in both homozygous and heterozygous condition called as -----
 - a) Recessive b) dominant c) both d) none of these
- 9) An off spring with a pair of unidentical factor (allele) is ----
 - a) Homozygous a) heterozygous c) hybrid d) polyzygous
- 10) Which is not an example of cytoplasmic inheritance
 - a) Kappa particles in paramecium
 - b) Male sterility in plant
 - c) CO₂ sensitivity in plant
 - d) Female sterility in maize