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R-122-2017

FACULTY OF SCIENCE

B.Sc. (Second Year) (Third Semester) EXAMINATION MARCH/APRIL, 2017

ZOOLOGY
Paper VI
(Genetics)
(MCQ+Theory)

(Monday, 10-4-2017)

Time: 2.00 p.m. to 4.00 p.m.

Time—2 Hours Maximum Marks—40 N.B. : (i)All questions are compulsory. Draw neat and labelled diagrams wherever necessary. (ii)(iii)All questions carry equal marks. (MCQs)1. Select the *correct* answer from the given multiple choice questions : 10 *(i)* The term genetics was coined by Empendoes (a) Aristotle (b) Malphigi (c)Bateson (d)(ii)Epistatis means (a) Stopping (b) Inhibiting Both (a) and (b)Decreasing (c)(d)(iii) The linkage was discovered by T.H. Morgan (b) Mendel (a) (c)Bateson (*d*) **DeVries** (iv)When F1 hybrid is crossed with anyone of the parent, such a cross is called as Back cross (a)(b) Reciprocal cross

P.T.O.

(*d*)

Dihybrid cross

Monohybrid cross

(c)

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	(v)	The	character which appe	ears in F1	generation is called	as	
		(a)	Dominant character	<i>(b)</i>	Recessive character		
		(c)	Aggressive character	r (d)	Contrasting charact	er	
	(vi)	The	transfer of blood fro	m one per	son to another perso	on is called	
		as					
		(a)	Blood donation	(b)	Blood transfusion		
		(c)	Blood transfer	(d)	Blood coagulation		
	(vii)	The genic balance theory of sex determination was formulated by					
		(a)	Bridges	(b)	Morgan	9.00 C	
		(c)	Bateson	(d)	M.C. Clug		
	(viii)	The exchange of segments between two non-homologous chromosomes					
		is cal	lled as				
		(a)	Inversion	(b)	Translocation		
		(c)	Deletion	(d)	Duplication		
	(ix)	Who awarded noble prize for the discovery of DNA model?					
	Tight.	(a)	Bateson and Punne	t (b)	Watson and Crick		
		(c)	Chargaff	(d)	Johanson		
A. P. P.	(x)	The Down's syndrome is also called as					
5,49 of		(a)	Mongolism	(b)	Mongoloid idiocy		
	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	(c)	Both (a) and (b)	(d)	Albinism		
			T	heory)			
2.	Describe Mendel's dihybrid corss with a suitable example. 1						
	1000 V E			Or			
	Write	short notes on:					
8 20 TE	(a)	Test cross					
	(b)	Sickle cell anaemia.					
	12 80 15 X	CO VY K					

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3. Discuss mechanism and factors affecting the crossing over. Or

Or

Write short notes on:

- (a) Inheritance of ABO blood group in man.
- (b) Phenylketonuria.
- 4. Describe bridge ratiotheory of genic balance.

Write short notes on:

- (a) Complete linkage
- (b) Albinism.