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B-156-2019

FACULTY OF SCIENCE

B.Sc. (Third Semester) EXAMINATION MARCH/APRIL 2019

(CBCS/CGPA Pattern)

ZOOLOGY

Paper VI

(Genetics)

(MCQ & Theory)

(Thursday, 4-4-2019)

Time—2 Hours

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

Maximum Marks—40

N.B. := (i) All questions are compulsory.

- (ii) All questions carry equal marks.
- (iii) Draw neat and labelled diagrams wherever necessary.

MCQs

1. Select the *correct* answer from the given multiple choices: 10

- (i) Mendel the father of Genetics was born in a peasant family in Austria in:
 - (a) 1622

(b) 1722

(c) 1822

(d) 1922

- (ii) The ratio of inhibitory factor in F_2 generation is:
 - (a) 9:7

(b) 9:3:4

(c) 15:1

(d) 13:3

- (iii) The persons of AB blood group contain:
 - (a) Antigen A

(b) Antigen B

(c) Antigen A and B

(d) No antigens

P.T.O.

WT

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	Theory		
2.	Define Genetics and explain Mendel's	law of inheritance.	10
	Or		20,23
	Write short notes on:		
	(a) Duplicate genes		
	(b) Phenylketonuria.		7,003
3.	Define multiple genes and explain ski	n pigmentation in man.	10
	Or		XXX
	Write short notes on:		
	(a) Factors affecting crossing over		
	(b) Turner's syndrome.		
4.	What is Mutation? Describe structura	l alternation in chromosome.	10
	Or		
	Write short notes on:		
	(i) Haemophilia	Y \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
	(ii) Structure of DNA.		