CSM - 71/21

Zoology

Paper - II

Time: 3 hours

Full Marks: 300

The figures in the right-hand margin indicate marks.

Candidates should attempt Q. No. 1 from

Section – A and Q. No. 5 from Section – B

which are compulsory and any three of

the remaining questions, selecting

at least one from each Section.

SECTION - A

Write notes on any three of the following:

 $20 \times 3 = 60$

- (a) Histones and non-histones
- (b) Wobble hypothesis and Wobble effect
- (c) Types and significance of Mimicry in animals
- (d) Biotechnology as a tool in waste management

(Turn over)

2.	Wi	th suitable examples, discuss, in detail, about
	Me	ndel's laws of inheritance. 60
3.	Wh	nat is PCR ? Discuss, in detail, about the
	pro	cess and application of PCR in Biology. 60
4.	Wr	ite short notes on the following: $15\times4 = 60$
	(a)	Mitotic cell division and significance
	(b)	Types of Fossilization
	(c)	Zoogeographical classification of the world
	(d)	Animal cloning
		SECTION - B
5.	Wr	te notes on any three of the following:
		20×3 = 60
	(a)	Classification and action of enzymes
	(b)	Homeostasis of kidney function .
	(c)	in vitro fertilization
	(d)	Mode of action of antibiotics

6. Write an account on adrenal cortex and medullary

60

hormones and their functions.

- With emphasis on energy production at various steps, describe the events of glycolysis and Krebs cycle.
- Write notes on the following: 15×4 = 60
 - (a) Ageing and associated changes
 - (b) With suitable diagram, write about the structure of neuron
 - (c) Types and function of mammalian placenta
 - (d) Types of vaccines and their production

