CSM – 71/17 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

- 1. Give an account of any three of the following:  $20 \times 3 = 60$ 
  - (a) Mitotic apparatus
  - (b) Plasmid
  - (c) DNA fingerprinting
  - (d) Sex chromosome
- Discuss the ultra structure of plasma membrane.
  Explain uniport, symport and antiport with diagram.

(Turn over)

ined in animals '	What is sex and how is sex deter	3.
60	Describe with examples.	
15×4 = 60	Write notes on the following:	4.
	(a) Types of RNA	
	(b) Molecular taxonomy	
	(c) Recombinant DNA	
	(d) Transgenic animals	
	SECTION - B	
three of the	Explain, with illustration, ar	5.
20×3 = 60	following:	
	(a) Structure of carbohydrate	
	(b) Cardiac cycle	
	(c) Regeneration	
	(d) Hypersensitivity	
	Define transduction. Give different types of bacterial tradiagram.	6.
	What is meant by pheromorpheromones of insects and examples.	7.

- 8. Write notes on the following:
- $15 \times 4 = 60$
- (a) Structure of Prokaryotes
- (b) Gametogenesis
- (c) Glycolysis
- (d) Urine formation

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