

This question paper contains 3 printed pages]

Code No. : 24(II) Roll No.

0(CCEM)9

ZOOLOGY

Paper : II

Time Allowed : 3 hours]

[Maximum Marks : 300

Note : (i) Answers must be written in English.

(ii) Number of marks carried by each question are indicated at the end of the question.

(iii) Part/Parts of the same question must be answered together and should not be interposed between answers to other questions.

(iv) The answer to each question or part thereof should begin on a fresh page.

(v) Your answers should be precise and coherent.

(vi) Candidates should attempt Q. No. 1 and 5 which are compulsory and three of the remaining questions selecting at least one question from each Section.

P. T. O.

SECTION - A

1. Give an account of any *three* of the following :

20 + 20 + 20 =

- (a) *Cyanobacteria*
- (b) *Patau syndrome*
- (c) *Cistron effect*
- (d) Genetic basis of recapitulation

2. Describe the *nuclear envelope* and the structure of pores. What similarities occur between the *nuclear envelope* and *endoplasmic reticulum* ?

30 + 30 = 60

3. Describe different types of *radiations* and *chemical mutagens* used for inductions of mutations. 30 + 30 =

4. What do you mean by *adaptive radiations* ? Explain the phenomenon by citing example of some *mesozoic animals*.

20 + 40 = 60

SECTION - B

5. Give an account of any *three* of the following :

20 + 20 + 20 = 60

- (a) *Pinocytosis*
- (b) *Nucleoproteins*
- (c) *Respiratory pigments*
- (d) *Retrogressive metamorphosis*

(2)

6. What is *Krebs Cycle* ? Discuss it in detail. 30 + 30 = 60
7. What are *neurotransmitters* ? Give an account of the mechanism of conduction along axon and across synapses. 20 + 40 = 60
8. Describe various types of *eggs* and *cleavage* found in chordates. 30 + 30 = 60

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