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 *nucle envelope* and *endoplasmic reticulum* ? 30 + 30 = 6

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

4. What do you mean by *adaptive radiations* ? Explain th phenomenon by citing example of some *mesozo animals*. 20 + 40 = 6

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*

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