

This question paper contains 3 printed pages]

Code No. : 24(I)

Roll No.

0(CCEM)9

ZOOLOGY

Paper : I

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 Question Nos. 1 and 5 and any three out of the remaining questions selecting at least one question from each Section. Attempt five question in all.*

P. T. O.

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SECTION – A

1. Write notes on any *three* of the following :

20 + 20 + 20 = 60

- (a) *Erythrocytic Schizogony* in human RBC
- (b) Polymorphism in *Hydrozoa*
- (c) Affinities of *Balanoglossus*
- (d) Hydrostatic organs in *fishes*

2. Give a detailed account of various *larval forms* of *Echinodermata*.

30 + 30 = 60

3. Describe the structural and functional *adaptations* of the *Platyheminthes* to the *parasitic* mode of life.

30 + 30 = 60

4. What is *retrogressive metamorphosis* ? Discuss it with special reference to the life history of an *ascidian*.

20 + 40 = 60

SECTION – B

5. Write notes on any *three* of the following :

20 + 20 + 20 = 60

- (a) Components of an *ecosystem*
- (b) *Biodiversity*
- (c) *Sericulture*
- (d) Conservation of *endangered species* in India

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6. Define *Biological Rhythm*. Describe various kinds of endogenous rhythms. $20 + 40 = 60$
7. Give an account of *sources, effects and control* of water pollution. $20 + 20 + 20 = 60$
8. What is *Ecological Succession* ? Discuss various types and causes of ecological succession. $20 + 20 + 20 = 60$

(3)

3,200