

[Total No. of Pages : 3

Roll No _____

1(CCE-M)4

ZOOLOGY - II

[24]

Time : 3 Hours

Maximum Marks : 300

INSTRUCTIONS

- i) *Answers must be written in English.*
- ii) *The number of marks carried by each question is indicated at the end of the question.*
- iii) *The answer to each question or part thereof should begin on a fresh page.*
- iv) *Your answer should be precise and coherent.*
- v) *The part/parts of the same question must be answered together and should not be interposed between answers to other questions.*
- vi) ***Candidates should attempt five question
Q No: 1 and 5 are compulsory***
- vii) *If you encounter any typographical error, please read it as it appears in the text book.*
- viii) *Candidates are in their own interest advised to go through the General Instructions on the back side of the title page of the Answer Script for strict adherence.*

24-II/2017

(1)

Turn Over

- ix) *No continuation sheets shall be provided to any candidate under any circumstances.*
- x) *Candidates shall put a cross (X) on blank pages of answer Script.*
- xi) *No blank page be left in between answer to various questions.*
- xii) *No programmable calculator is allowed.*
- xiii) *No stencil (With different markings) is allowed.*

SECTION-A

- 1. Write notes on any three of the following:
(20+20+20=60)
 - a) Hardy-Weinberg law.
 - b) Normal and abnormal karyotypes
 - c) Watson-Crick model of DNA
 - d) Mitochondria as "powerhouse of the cell"
- 2. Describe the structure and function of plasma membrane and endoplasmic reticulum. 60
- 3. Explain mimicry and its significance in the life of an animal with suitable example. 60

- 4. Give a detail account of prokaryotic translation initiation complex. 60

SECTION-B

- 5. Write notes on any three of the following:
20+20+20=60
 - a) Extra embryonic membranes in chicks
 - b) Oogenesis in a mammal
 - c) Types and functions of Immunoglobulins
 - d) Metamorphosis in frog
- 6. Explain the ultra structure and mechanism of contraction of skeletal muscles. 60
- 7. Describe the types and functions of placenta in mammals. 60
- 8. Give an account of classification biosynthesis and functions of hormones. 60

