

DR.V.S.KRISHNA GOVT DEGREE COLLEGE (A), VISAKHAPRATNAM
ZOOLOGY

TIME: 3Hrs

SEMESTER-4

Max Marks: 60

ANIMAL PHYSIOLOGY, EMBRYOLOGY & ECOLOGY

SECTION-A

I. Answer any FIVE of the following. Draw a labelled diagrams wherever necessary

5x8=40

1. (a) Write an essay on types and functions of placenta in mammals
OR
(b) Describe the process Cleavages in embryonic development
2. (a) Write an essay on the Structure and functions of Heart in mammals
OR
(b) Structure of nephron and counter current mechanism
3. (a) Write an essay on endocrine glands and its functions
OR
(b) Hormonal control of reproduction in mammals
4. (a) Describe the important abiotic factors of ecosystem
OR
(b) Explain the Nutrient cycles
5. (a) Describe the Community interactions and its types
OR
(b) Explain the Zoographical regions

SECTION-B

II. Answer any FIVE of the following. Draw a labelled diagrams wherever necessary
5x4=20

6. Fertilization
7. Types of eggs
8. Cardiac cycle
9. Ultra structure of muscle
10. Thyroid gland
11. Carbon cycle
12. Ecological succession
13. Ethiopian region