

M.Sc. (Zoology) (CBCS Pattern) Semester-IV
PSCZOOT15.4 - Paper-XV Special Group : Animal Physiology-IV
(Physiology of Respiration and Reproduction)

P. Pages : 1

Time : Three Hours



GUG/W/24/11442

Max. Marks : 80

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- Notes :
1. All questions are compulsory.
 2. All questions carry equal marks.
 3. Draw well labelled diagram wherever necessary.

1. Describe in detail Lung volume and capacities. 12

OR

- a) Explain Exchange of respiratory gases at pulmonary surface.
- b) Explain transport of respiratory gases by blood.

2. Describe in details Carbon-dioxide dissociation curve. 16

OR

- a) Explain in detail Chloride shift.
- b) Explain chemical regulation of respiration.

3. Give detail account on endocrine control of spermatogenesis. 16

OR

- a) Explain Sertoli cells and their hormones.
- b) Explain Corpus luteum hormones and functions.

4. Describe in details In-vitro fertilization and their disadvantage. 16

OR

- a) Give a brief account on role of pheromones in reproduction.
- b) Explain Placental hormone and functions.

5. Attempt the following. 16

- a) Partial pressure of gases.
- b) Hypoxia.
- c) Follicular Cells.
- d) Lactation.
