

Roll No.....

Total No. of Sections : 03

Total No. of Printed Pages : 03

Code No. : 02/205(A)

Second Semester Examination, May-2018

M.Sc. ZOOLOGY

Paper - II

REPRODUCTIVE BIOLOGY

Time : 3 Hrs.

Max.Marks : 80

Note : Section 'A' consists of 10 very short answer type questions, all of which are compulsory and should be attempted first. Section 'B' consists of four short answer type questions with internal options. Section 'C' consists of four long answer type questions with internal choice.

Section - 'A'

Answer the following very short-answer-type questions in one or two sentences : (2×10=20)

- Q.1 Define hormone.
- Q.2 Name two steroid hormones of female.
- Q.3 What is sperm acrosome?
- Q.4 Define megalecithal egg with an example.
- Q.5 What is menarchy?
- Q.6 Define Fertilization.
- Q.7 Define False placenta with one example.
- Q.8 What is meant by cleavage?
- Q.9 What do you mean by metamorphosis?
- Q.10 What is the function of yolk in animal eggs?

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Section - 'B'

Answer the following short-answer-type questions with word limit 200-250 : (5 4=20)

Q.1 Write brief notes on seminal vesicle and prostate glands.

OR

Write a short note on structure of vertebrate sperm.

Q.2 Describe structure of mature graafian follicle.

OR

Give classification of eggs based on amount of yolk.

Q.3 Write short note on pheromones.

OR

Write short note on activation and capacitation of sperms.

Q.4 Describe cleavage and its characteristics.

OR

What is Fate map? Describe with figure.

Section - 'C'

Answer the following long-answer-type questions with word limit 400-450 : (10 4=40)

Q.1 Describe complete process of spermatogenesis & its hormonal control.

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Describe histological structure of testis with suitable figures.

Q.2 Describe histological structure of mammalian ovary.

OR

Describe menstrual cycle and its significance.

Q.3 Describe fertilization and mention advantage of internal fertilization over external fertilization.

OR

Describe biochemistry of fertilization.

× Q.4 Describe types of cleavage in vertebrate eggs with special reference to the role of yolk.

OR

Give an account of foetal membranes of vertebrates and their function. Give a labelled diagram.

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