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Y—133—2019

FACULTY OF SCIENCE

B.Sc. (Second Semester) (Backlog) EXAMINATION

OCTOBER/NOVEMBER, 2019

ZOOLOGY

Paper IV

(Developmental Biology)

(MCQ & Theory)

(Wednesday, 20-11-2019)

Time : 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—40

N.B. :— (i) Attempt All questions.

(ii) One mark to each correct answer of an MCQ.

(iii) Use OMR sheet for Q. No. 1.

(iv) Negative marking system is applicable.

(v) Use black ball point pen to darken the circle of correct choice in OMR Sheet.

(vi) Draw diagrams wherever necessary for Q. Nos. 2, 3 and 4.

MCQ

1. Select the correct answer for each of the following MCQs. 10

(i) The frog egg having radial symmetry is called.....

- (a) Unfertilized egg (b) Fertilized egg**
(c) Both (a) and (b) (d) None of these

(ii) Chalaza is found in the egg of.....

- (a) Rabbit (b) Rat**
(c) Hen (d) Wall lizard

(iii) Which of the following is not a type of egg based on the distribution of yolk ?

- (a) Homolecithal egg (b) Telolecithal egg**
(c) Centrolecithal egg (d) Microlecithal egg

P.T.O.

- (iv) Zonary placenta is found in.....
- (a) Sheep (b) Cow
(c) Elephant (d) Man
- (v) The embryonic stem cells are present in.....
- (a) Adults (b) Embryos
(c) Bone marrow (d) None of these
- (vi) The first test tube baby Louise Brown was born in the year.....
- (a) 1983 (b) 1978
(c) 1988 (d) 2008
- (vii) GIFT means :
- (a) Germ Intrafallopian Transfer
(b) Germ Interfallopian Transfer
(c) Gamete Intrafallopian Transfer
(d) Gamete Intensive Fallopian Transfer
- (viii) The individuals produced by parthenogenesis are called :
- (a) Offsprings (b) Parthenates
(c) Baby (d) Test tube baby
- (ix) High power of regeneration ability is found in.....
- (a) Coelenterates (b) Arthropods
(c) Molluscs (d) Protochordates
- (x) In frog blastula hollow sphere is called.....
- (a) Microblastula (b) Macroblastula
(c) Coeloblastula (d) None of these

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(3)

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Theory

2. Describe the types of eggs on the basis of amount of yolk. 10

Or

Write notes on :

- (a) Infertility in female
- (b) Egg (Ovum) of frog.

3. Describe structure and functions of yolk and allantois. 10

Or

Write notes on :

- (a) Spermiogenesis
- (b) Adult stem cells.

4. Describe the classification of placenta on the basis of mode of distribution of villi and functions of placenta. 10

Or

Write notes on :

- (a) Blastulation
- (b) Role of stem cells in human welfare.

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