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**AO—98—2018**

**FACULTY OF SCIENCE**

**B.Sc (First Year) (Second Semester) EXAMINATION**

**MARCH/APRIL, 2018**

**(CBCS/CGPA Pattern)**

**ZOOLOGY**

**Paper IV**

**(Developmental Biology)**

**(MCQ & Theory)**

**(Tuesday, 3-4-2018)**

**Time : 10.00 a.m. to 12.00 noon**

*Time—2 Hours*

*Maximum Marks—40*

*N.B. :— (i) Attempt all questions.*

*(ii) Use separate answer sheet (OMR) for Question No.1*

*(iii) One mark to each correct answer of MCQ.*

*(iv) Negative marking system is applicable.*

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

*(vi) Draw well labelled diagrams wherever necessary for Question Nos. 2, 3, and 4.*

**MCQ**

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

(i) The production of gametes is called.....

(a) Gametogenesis

(b) Biogenesis

(c) Homeogenesis

(d) Genesis

(ii) Formation of spermatozoa is refers to.....

(a) Oogenesis

(b) Spermatogenesis

(c) Germination

(d) None of these

(iii) The..... develop to the acrosome.

(a) Golgi bodies

(b) Nucleus

(c) Centromeres

(d) Centriole

P.T.O.

- (iv) The growth duration of frog oocyte is prolonged for..... years.
- (a) One (b) Two  
(c) Three (d) Four
- (v) Graafian follicle consist of a cavity called.....
- (a) Centrum (b) Antrum  
(c) Quantum (d) None of these
- (vi) The first test tube baby was.....
- (a) Louice Brown (b) Louice Joy  
(c) John (d) Jeny
- (vii) The replacement of the lost part of the organism is called .....
- (a) Regeneration (b) Recombination  
(c) Reproduction (d) Fertilization
- (viii) When the egg contains large amount of yolk is called..... egg.
- (a) Microlecithal (b) Megalecithal  
(c) Hololecithal (d) Alecithal
- (ix) Allantois is..... in function.
- (a) Excretory (b) Mesonary  
(c) Diffusery (d) None of these
- (x) The sperm of frog is.....
- (a) Haploid (b) Diploid  
(c) Both *a* and *b* (d) None of these

### Theory

2. Describe the types of eggs on the basis of distribution of yolk.

10

Or

Write notes on :

- (a) Spermatogenesis  
(b) Test-tube baby

3. Describe the process of formation of three germinal layers in frog. 10

*Or*

Write notes on :

- (a) Regeneration in Non-chordates  
(b) Natural parthenogenesis.
4. Explain the classification of placenta on the basis of mode of distribution of villi and functions of placenta. 10

*Or*

Write notes on :

- (a) Chorio-allentois placenta  
(b) Role of stem cells in human welfare.