

**K18U 0152**

Reg. No. : .....

Name : .....

**VI Semester B.Sc. Degree (CBCSS-Reg./Supple./Imp.)**  
**Examination, May 2018**

**CORE COURSE IN ZOOLOGY**

**6B12 ZLG : Developmental Biology, Teratology and Gerontology  
(2014 Admn. Onwards)**

Time : 3 Hours

Max. Marks : 40

I. Answer **any one** of the following :

- 1) With the help of a diagram explain the salient features of 48 hr Embryo.  
2) Explain on Teratogens.

II. Answer **any one** of the following :

- 3) Explain the classification of eggs based on the amount and distribution of yolk.  
4) Describe the process of cloning.

III. Answer **any two** of the following :

(2x4=8)

- 5) Explain regeneration.  
6) Describe any two theories of ageing.  
7) Explain Spemann's constriction experiments.  
8) Make a note on amniocentesis and ultrasonography.

IV. Answer **any six** of the following :

(6x2=12)

- 9) Vital stains  
10) Chorionic Villi sampling  
11) Blastulation  
12) Germ layers  
13) Graffian follicle  
14) GIFT and ICSI  
15) Apoptosis

P.T.O.



16) Ethical issues in human cloning

17) Morphogenetic movements

18) Placentation.

## V. Answer the following :

(4x1=4)

19) Blastula stage of mammals is

- a) Stomoblastula
- b) Discoblastula
- c) Periblastula
- d) Blastocyst

20) Vital staining methods was devised by

- a) Vogt
- b) Spencer
- c) Spratt
- d) Spemann

21) Which of the following is a teratogen ?

- a) Nicotine
- b) Thalidomide
- c) Alcohol
- d) All these

22) The type of cleavage is found in macrolecithal and highly telolecithal egg is

- a) Superficial
- b) Discoidal
- c) Both a) and b)
- d) None of these

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Reg. No. : .....

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**VI Semester B.Sc. Degree (CBCSS – Regular) Examination, May 2017**

2014 Admn.

**CORE COURSE IN ZOOLOGY**

**6B12ZLG : Developmental Biology, Teratology and Gerontology**

Time : 3 Hours

Max. Marks : 40

I. Answer **any one** of the following : (1×8=8)

- 1) With the help of a diagram explain the salient features of 24 hr. Embryo.
- 2) Explain various assisted reproductive techniques.

II. Answer **any one** of the following : (1×8=8)

- 3) Explain the classification of eggs based on the amount and distribution of yolk.
- 4) Describe the process of regeneration.

III. Answer **any two** of the following : (2×4=8)

- 5) Explain Fate map.
- 6) Describe any two theories of ageing.
- 7) Explain hormonal control of amphibian metamorphosis.
- 8) Describe various morphogenetic movements.

IV. Answer **any six** of the following : (6×2=12)

- 9) Blastocyst
- 10) Amniocentesis
- 11) Cell lineage
- 12) Homeotic genes
- 13) Teratogens
- 14) Vitellogenesis
- 15) Apoptosis
- 16) Ethical issues in human cloning
- 17) Corpus luteum
- 18) Gestation.

P.T.O.

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V. Answer any four of the following : (4×1=4)

19) Blastomeres are the cells produced as a result of

- a) Blastulation
- b) Cleavage
- c) Gastrulation
- d) Organogenesis

20) Vital staining methods was devised by

- a) Vogt
- b) Spencer
- c) Spratt
- d) Spemann

21) Which of the following is a teratogen ?

- a) Nicotine
- b) Thalidomide
- c) Alcohol
- d) All these

22) Meroblastic discoidal type of cleavage is found in

- a) Human
- b) Insects
- c) Birds
- d) Frog