



K22U 0158

Reg. No. :

Name :

**VI Semester B.Sc. Degree (CBCSS – Supple./Improv.)
 Examination, April 2022
 (2016-2018 Admissions)
 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) Explain the development and functions of various extra embryonic membranes.
 - 2) Make a note on any four prenatal diagnosis techniques.
- II. Answer **any one** of the following : (1×8=8)
- 3) Explain the various types of regeneration.
 - 4) Describe on aging and various theories of aging.
- III. Answer **any two** of the following : (2×4=8)
- 5) Briefly explain Spemann's constriction experiments.
 - 6) Make a note on the types of cleavage based on the amount of yolk.
 - 7) With the help of a labelled diagram, describe the structure of Graffian Follicle.
 - 8) Explain hormonal control of amphibian metamorphosis.
- IV. Answer **any six** of the following : (6×2=12)
- 9) Germ layers.
 - 10) Fate map.
 - 11) Telolecithal egg.
 - 12) Corpus luteum.
 - 13) Cell lineage.

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- 14) Ethical issues in human cloning.
- 15) ICSI and ZIFT.
- 16) Cryopreservation.
- 17) Parturition and Lactation.
- 18) Hox genes and Homeotic genes.

- V. Answer the following : (4×1=4)
- 19) The cells produced as a result of cleavage is called
 a) Blastomeres b) Morula c) Blastula d) Gastrula
 - 20) Heart is derived from
 a) Ectoderm b) Endoderm
 c) Mesoderm d) Chordamesoderm
 - 21) The cavity present inside the graffian follicle is called
 a) Antrum b) Cumulus Oophorus
 c) Liquor folliculi d) Blastocoel
 - 22) Vital staining method was developed by
 a) Vogt b) Spemann c) Griffith d) Spratt