



K20U 0158

Reg. No. :

Name :

VI Semester B.Sc. Degree (CBCSS – Reg./Supple./Improv.)

Examination, April 2020

(2014 Admission Onwards)

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 organogenesis of brain in frog.
- 2) Classify extra embryonic membranes in chick. Mention its function.

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

(1×8=8)

- 3) Explain in vitro fertilization and embryo transfer.
- 4) Explain regeneration in animals.

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

(2×4=8)

- 5) Different types of blastula.
- 6) Explain hormonal control of amphibian metamorphosis.
- 7) Explain 24 hr chick embryo.
- 8) Explain Spemann's constriction experiment.

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

(6×2=12)

- 9) Telolecithal eggs.
- 10) Meroblastic cleavage.
- 11) Grey crescent.
- 12) Implantation.
- 13) Amniocentesis.
- 14) ICSI.

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- 15) Totipotency.
- 16) Embryonic stem cells.
- 17) Gerontology.
- 18) Homeotic genes.

V. Answer the following :

(4×1=4)

- 19) Theory of epigenesis was proposed by
 - a) Wolff
 - b) Haeckel
 - c) Weismann
 - d) Muller
- 20) Mammalian cloning was experimented in the year
 - a) 1997
 - b) 1980
 - c) 1976
 - d) 1982
- 21) Vital staining methods for fate map was discovered by
 - a) Sprat
 - b) Vogt
 - c) Spemann
 - d) Gurdon
- 22) The peripheral ring of blastoderms in contact with yolk which are destined to become extra embryonic structures are known as
 - a) Primitive streak
 - b) Area pellucida
 - c) Area opaca
 - d) Henson's node