



K19U 0153

Reg. No. :

Name :

VI Semester B.Sc. Degree (CBCSS – Reg./Supple./Improv.)
Examination, April 2019
(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) Classify egg based on the amount and distribution of yolk. Explain different types of cleavage in animals.
- 2) Explain placentation in mammals with reference to different types and its function. (1×8=8)

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

- 3) Explain morphogenetic movements in frog.
- 4) Explain organizers in amphibian development. (1×8=8)

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

- 5) Explain 48 hr chick embryo.
- 6) Explain stem cells, their significance and applications.
- 7) Different types of regeneration.
- 8) Explain Spemann's constriction experiment. (2×4=8)

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

- 9) Determinate egg.
- 10) Vitillogenesis.
- 11) ART.
- 12) Fate map of frog.

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- 13) Primitive streak.
 14) Parturation.
 15) Chorion Villus Sampling.
 16) Hox genes.
 17) Teratology.
 18) Apoptosis.

(6×2=12)

V. Answer the following :

- 19) Germplasm theory was proposed by
 a) Wolff
 b) Haeckel
 c) Weismann
 d) Muller
- 20) Who was the first test tube baby ?
 a) Dolly
 b) Louise brown
 c) Ian Wilmut
 d) None of the above
- 21) The central area of blastoderm above the sub germinal cavity which are destined to become embryo proper are known as
 a) Primitive streak
 b) Area pellucida
 c) Area opaca
 d) Henson's node
- 22) The larval form of sea urchin
 a) Echinopluteus
 b) Trocophore larva
 c) Infusoriform larva
 d) Muller's larva

(4×1=4)