



K21U 0158

Reg. No. :

Name :



VI Semester B.Sc. Degree (CBCSS – Reg./Supple./Improv.)
Examination, April 2021
(2014 – 2018 Admissions)
CORE COURSE IN ZOOLOGY
6B12 ZLG : Developmental Biology, Teratology and Gerontology

Time : 3 Hours

Max. Marks : 40

Instructions : Answer may be written either in **English** or in **Malayalam**. Give illustrations **wherever** necessary.

- I. Answer **any one**. (1×8=8)
- 1) Describe the development of eye in frog with the help of labeled diagrams.
 - 2) Describe the development and functions of extra embryonic membranes of chick.
 - 3) Discuss the various reproductive technologies used to solve infertility problems.
- II. Answer **any one**. (1×8=8)
- 4) Illustrate the different morphogenetic movements in the gastrulation in frog.
 - 5) Give an account on regeneration in animals.
 - 6) Describe the structure of 33 hour chick embryo.
- III. Answer **any two**. (2×4=8)
- 7) What is fate map ? Explain.
 - 8) What are hox genes ?
 - 9) Give an account on Gradient experiments in sea urchin.
 - 10) Describe different types of blastula.
- IV. Answer **any six** of the following : (6×2=12)
- 11) Cleidoic egg
 - 12) Capacitation
 - 13) Cell lineage

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- 14) Primitive streak
 15) Morula
 16) Recapitulation theory
 17) Decidua
 18) Archenteron
 19) Placenta
 20) Somites
 21) Vital staining
 22) Blastocyst.

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8B12 ZLG : Developmental Biology, Teratology and Gerontology

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V. Answer the following questions.

(4x1=4)

23) The egg of insect is

- A) Alecithal
 B) Isolecithal
 C) Telolecithal
 D) Centrolecithal

24) Stem cells are

- A) Pluripotent
 B) Totipotent
 C) Unipotent
 D) None of these

25) In man, placenta is

- A) Discoidal
 B) Zonary
 C) Diffuse
 D) Metadiscoidal

26) Which of the following is a maternal effect gene ?

- A) Kruppel
 B) Elunchback
 C) Bicoid
 D) Antennapedia