

ACTIVITY CODE: 1903231021

B.Sc. 6th Semester (Honours) Examination, October 2020

ZOOLOGY

Course ID: 62611

Course Code: SH/ZOO/601/C-13

Course Title: Developmental Biology

Full Marks: 15

Time: 1 Hr

*The figures in the right hand margin indicate full marks.
Candidates are required to give their answers in their own words.*

UNIT I

1. Answer any five questions: (1x5=5)

- a. What is capacitation?
- b. Define polyspermy.
- c. What is resact?
- d. Define meroblastic cleavage.
- e. Define organizer.
- f. How do adjacent cell communicate between each other?
- g. What is reciprocal induction?
- h. Define the morphogenetic movement by which hypoblast layer in chick is formed.
- i. What is the role of yolk sac in embryonic development?
- j. What is restorative regeneration?
- k. What is Thalidomide baby?

UNIT II

2. Answer any two questions: (5x2=10)

- a. Briefly describe the process of Spermiogenesis?
- b. Describe the role of Dishevelled protein in gastrulation of frog.
- c. Describe the process of Epimorphic regeneration.
- d. Schematically represent the fate of the germ layers at the time of organogenesis.

Signature of Moderators _____

Date _____

Signature of Moderators _____

Date _____