



GN-251

100678

V Semester B.Sc. Examination, December - 2019
(CBCS) (F+R) (2016-17 and Onwards)

ZOOLOGY PAPER - VI

Developmental Biology And Organic Evolution

Time : 3 Hours

Max. Marks : 70

Instructions : (i) Draw neat labelled diagrams wherever necessary.
(ii) Answers should be completely in **English** or **Kannada**.

PART - A

I. Answer **any five** of the following :

5x3=15

- State Preformation Theory.
- Define Viviparity. Give an example.
- Write a note on primary organizer.
- What is deciduate placenta ? Give an example.
- Write a note on genetic drift.
- Define Sympatric Speciation. Give an example.
- What are :
 - moulds
 - casts

PART - B

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

5x5=25

- Classify eggs based on the amount of yolk.
- With reference to hydroid coelenterates, explain child's axial gradient theory.
- Differentiate between Determinate and Indeterminate cleavage giving examples.
- Compare blastulation in Amphioxus and frog.
- Write a note on the fate map of frog.
- Define placenta. Differentiate between Yolk sac and Chorio-allantoic placenta.
- Explain the carbon method of dating fossils.

P.T.O.



PART - C

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

- (a) Explain the process of oogenesis with illustrations.
- (b) Explain the mechanism of regeneration.
- (c) What is cell lineage ? Explain with reference to Nereis.
- (d) Describe the extra-embryonic membranes of chick. Add a note on its functions.
- (e) Natural selection is an evolutionary force. Explain.
- (f) Write notes on :
 - (i) Homo erectus
 - (ii) Neanderthal man

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