

Roll No.

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Total No. of Pages : 02

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B.Sc. (BT) (Sem.-6)
DEVELOPMENTAL BIOLOGY

Subject Code : BSBT-147-18

M.Code : 79458

Date of Examination : 03-01-2023

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. **SECTION-A is COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **FIVE** questions carrying **FIVE** marks each and students have to attempt any **FOUR** questions.
3. **SECTION-C** contains **THREE** questions carrying **TEN** marks each and students have to attempt any **TWO** questions.

SECTION-A

1. Write briefly :

- Coeloblastula
- Radial Cleavage
- Acrosome Reaction
- Polarity of egg
- Organizer
- Epiboly
- De-differentiation
- Anisogamy
- Spermiation
- Primary Egg membrane.

SECTION-B

2. Describe the function of Sertoli cells.
3. Explain with an example the primary embryonic induction.
4. Describe formation of egg membranes and discuss their functions.
5. Explain mechanism of differential gene expression.
6. Discuss process of vitellogenesis.

SECTION-C

7. Discuss the types of placenta with regard to the intimacy between the foetal and maternal parts of placenta.
8. Explain in detail the significance of '*Blastulation and Blastula formation*' in the process of development.
9. Discuss formation and differentiation of primary germ layers in detail.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.