



(Following Paper ID and Roll No. to be filled in your Answer Books)

**Paper ID :154667**

Roll No.

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**B.TECH.****Theory Examination (Semester-VI) 2015-16****DEVELOPMENTAL BIOTECHNOLOGY****Time : 3 Hours****Max. Marks : 100****Section-A**

**Q.1. Attempt all parts. All parts carry equal marks. Write answer of each part in short. (2×10=20)**

- (a) Define comparative embryology.
- (b) Explain term regeneration.
- (c) What is the difference between sexual and asexual reproduction ?
- (d) What do you understand by metamorphosis?

(1)

P.T.O.

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(i) What is the sex determination?

(j) Write down about ageing.

**Section-B**

**Q.2. Attempt any five parts. All parts carry equal marks :**

**(5×10=50)**

(a) What is the basic concept of comparative and evolutionary embryology? Explain the development pattern of metazoan.

(b) Explain the morphological gradients in developmental biology and write down about cell fate determination.

(f) What do you mean by medical embryology and explain teratology ?

(g) Write short notes on cell fate and cell lineagens.

(h) What is the role of mutants and transgenics in analysis of development?

**Section-C**

**Note: Attempt any two questions from this section.**

**(2×15=30)**

**Q.3. Write down the development cycle of drosophila and mouse in details.**

(2)

(3)

P.T.O.



Q.4. What is the development of plant growth and define the plant development cycle ?

Q.5. Discuss plant embryogenesis. Write down the potency and commitment.

(4)

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