

Seat No.	
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- 11) If ten oogonia cells undergo oogenesis _____ eggs are produced.
a) 10 b) 20
c) 30 d) 40
- 12) Cavity present inside the blastula is called as _____.
a) Blastocoel b) Gastrocoel
c) Coelom d) Archenteron
- 13) Cancer develops from muscular tissue is called as _____.
a) Sarcoma b) Carcinoma
c) Osteoma d) Lymphoma
- 14) The hormone involved in the metamorphosis of tadpole is _____.
a) Prolactin b) Thyroxine
c) GTH d) Somatotrophin

Q.2 A) Answer the following questions. (Any Four) 08

- 1) Define primordial germ cells.
- 2) Write a note on IVF.
- 3) Write a note on laws of cleavage.
- 4) What is epiboly and emboly?
- 5) Write a note on stem cells.

B) Answer the following questions. (Any Two) **06**

- 1) Write a note Mosaic theory.
- 2) Give free radical theory of aging?
- 3) Capacitation of sperms

Q.3 A) Answer the following questions. (Any Two) 08

- 1) Describe fate map of frog blastula.
- 2) Describe process of oogenesis.
- 3) Explain different planes of cleavage.

B) Answer the following question. (Any One) **06**

- 1) Describe blastulation in centrolecithal eggs.
- 2) Describe types of asexual reproduction with suitable examples.

Q.4 A) Answer the following questions. (Any Two) 10

- 1) Describe regulative and gradient theory of development.
- 2) Describe process of spermatogenesis.
- 3) Describe different types of cleavage.

B) Answer the following question. (Any One) **04**

- 1) Describe blastulation in telolecithal eggs.
- 2) Describe metamorphosis in insects.

Q.5 Answer the following questions. (Any Two) **14**

- Describe process of fertilization with neat labeled diagram.
- Describe process of gastrulation in chick.
- Describe process of regeneration in vertebrates with suitable examples.