

QP Code : 04031

(2½ Hours)

[Total Marks : 75]

- N.B. :** (1) All questions are **compulsory**.
(2) All questions carry **equal** marks.
(3) Draw **neat** labelled diagrams wherever **necessary**.
(4) Questions should be answered in **order**.

1. Describe the following :

(a) Systematic position, habit and habitat of shark.

OR

(a) Male urinogenital system of shark.

(b) Digestive system of shark.

OR

(b) Respiratory system of shark.

2. Explain the following :

(a) Structure of nephron.

OR

(a) Air sacs in birds.

(b) Brain of frog.

OR

(b) Differentiation of primary brain vesicles.

3. Describe the following :

(a) Oogenesis in frog.

OR

(a) Morphogenetic movements.

(b) Fertilization in frog.

OR

(b) Embryonic stem cells.

4. Explain the following :

(a) Histology of intestine of mammals.

OR

(a) Histology of Kidney of mammals.

(b) Histology of liver.

OR

(b) Histology of testis of mammals.

5. Write short notes on :

(a) Placoid scales in shark.

OR

(a) 7th cranial nerve of shark.

(b) Flexures of brain.

OR

(b) Pronephros.

(c) Epiboly.

OR

(c) Fate maps.

(d) Muscularis and mucosa of intestine.

OR

(d) Ovarian follicle of mammal.