

[Time: 2½ Hours]

[Marks: 75]

- N.B:** 1. All questions are **compulsory**.
 2. **Figures to the right** indicate marks.
 3. Draw a neat and labelled diagram wherever necessary.

1. Describe the following :

(a) Systematic position and excretory system of *Sepia*. **07**

OR

(a) Digestive system of *Sepia*. **07**

(b) Nervous system of *Sepia*. **08**

OR

(b) Female reproductive system of *sepia*. **08**

2. Explain the following :

(a) Heart of fish **07**

OR

(a) Types of feathers. **07**

(b) Structure of tooth and dental formula in mammals. **08**

OR

(b) Epidermal glands based on structure. **08**

3. Describe the following :

(a) Structure of 36 hours chick embryo. **07**

OR

(a) Types of placenta based on histology. **07**

(b) Development of primitive streak in chick embryo and its significance. **08**

OR

(b) Extra embryonic membranes in mammals. **08**

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4. Explain the following :

(a) Histology of adrenal gland.

07

OR

(a) Parathyroid as an endocrine gland.

07

(b) Disorders of hormones from anterior and posterior pituitary.

08

OR

(b) Functions and disorders of pancreatic hormones.

08

5. Write notes on the following :

(a) Shell of *Sepia*.

04

OR

(a) Spermatophore of *Sepia*.

04

(b) Prong horn.

04

OR

(b) Placoid scale.

04

(c) Yolk sac in chick embryo.

04

OR

(c) Flexion in chick embryo.

04

(d) Adrenal corticoid hormones.

03

OR

(c) Thyroid disorders.

03
