

QP Code : 05030

(2 ½ Hours)

[Total Marks : 75

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

Describe the following:—

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|--|---|
| (a) Respiratory system of Sepia. | 7 |
| OR | |
| (a) Excretory system of Sepia. | 7 |
| (b) Habit, habitat and external characters of Sepia. | 8 |
| OR | |
| (b) Digestive system of Sepia. | 8 |

Explain the following:—

- | | |
|---|---|
| (a) Quill feather and down feather. | 7 |
| OR | |
| (a) Aortic arches in reptiles and birds. | 7 |
| (b) Dentition in lower vertebrates. | 8 |
| OR | |
| (b) Epidermal glands based on secretions. | 8 |

Describe the following:—

- | | |
|---|---|
| (a) Structure of 18 hours chick embryo. | 7 |
| OR | |
| (a) Differentiation of mesoderm of chick embryo. | 7 |
| (b) Types of placenta based on distribution of villi. | 8 |
| OR | |
| (b) Development of heart in chick upto 72 hours. | 8 |

Describe the following:—

- | | |
|---|---|
| (a) Histology of pituitary gland. | 7 |
| OR | |
| (a) Functions and disorders of pancreatic hormones. | 7 |
| (b) Structure and hormones of parathyroid gland. | 8 |
| OR | |
| (b) Functions and disorders of adrenal cortical hormones. | 8 |

Write short notes on:—

- | | |
|--|---|
| (a) Branchial and systemic hearts of Sepia | 4 |
| OR | |
| (a) Ink sac of Sepia | 4 |

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(b) Apocrine gland

OR

(b) Fibrous horn

(c) Area opaca and area pellucida of chick embryo

OR

(c) Functions of amnion of chick.

(d) Adreno corticotropic Hormone and Prolactin.

OR

(d) Normal thyroid follicle.

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