

27/4/17 Sem-V TY BSc. ~~Biology~~ Zoology

2016-17

QP Code : 77022

(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) Digestive system of Sepia. 7
 - OR
 - (a) Nervous system of Sepia. 7
 - (b) Habit and habitat of Sepia. 8
 - OR
 - (b) Female reproductive system of Sepia. 8
2. Explain the following :
 - (a) Evolution of heart. 7
 - OR
 - (a) Mammalian dentition. 7
 - (b) Feathers and hair. 8
 - OR
 - (b) Primary divisions of digestive tube. 8
3. Describe the following :
 - (a) Development upto 24 hrs. of chick embryo. 7
 - OR
 - (a) Structure of hen's egg. 7
 - (b) Classification of placentae on the basis of morphology. 8
 - OR
 - (b) Amnion and allantois. 8
4. Explain the following :
 - (a) Histology of pituitary gland. 7
 - OR
 - (a) Hormonal disorders of thyroid gland. 7

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(b) Hormonal disorders of adrenal gland.

8

OR

(b) Functions and disorders of pancreatic hormones.

8

5. Write short note on :

(a) Chromatophores in Sepia.

4

OR

(a) Economic importance of Sepia.

4

(b) Hoofs.

4

OR

(b) Claws.

4

(c) Yolk sac.

4

OR

(c) Epithelio - chorial placenta.

4

(d) Functions of adrenal medulla.

3

OR

(d) Functions of parathyroid hormone.

3