

This question paper contains 3 printed pages.]

Your Roll No.

519

Subsidiary for B.Sc. Honours A
ZOOLOGY – Paper II
(Developmental Biology and Histology)
(Admissions of 2004 and onwards)

Time : 3 Hours

Maximum Marks : 50

(Write your Roll No. on the top immediately on receipt of this question paper.)

Attempt **five** questions in all, including
Question No. 1 which is compulsory.

Attempt any **two** questions each from Section A and
Section B.

Marks are indicated against each question.

1. (a) Define the following :
- (i) Centrolecithal egg
 - (ii) Morphallaxis
 - (iii) Oogenesis
 - (iv) Morula 4
- (b) Distinguish between the following :
- (i) Grey matter and white matter
 - (ii) Blastula and gastrula
 - (iii) Holoblastic and meroblastic cleavage
 - (iv) Fertilizin and Antifertilizin 4

- (c) Indicate the location and function of
- (i) Crypts of Lieberkühn
 - (ii) Islets of Langerhans 2
- (d) Match the following :

	Column A	Column B
(i)	Bone	Extra embryonic membrane
(ii)	Chorion	Haversian system
(iii)	Sertoli cells	Meroblastic cleavage
(iv)	Discoidal cleavage	Seminiferous tubules Ovary

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SECTION - A

2. Describe with suitable diagrams early development in frog upto completion of gastrulation. 9
3. What is placenta ? Give the various types of placenta based on the distribution of Villi giving examples and diagrams. 9
4. Write short notes on :
- (i) Types of Eggs
 - (ii) Structure and function of chorion
 - (iii) Spermo genesis 3 × 3 = 9

SECTION – B

5. Describe with suitable diagrams the histological structure and function of Duodenum. 9
6. Describe with the help of suitable diagram, the histology of
- (i) Oesophagus
 - (ii) Artery
 - (iii) Thymus gland 9
7. Draw neat, labelled diagram of
- (i) T.S. Pancreas
 - (ii) T.S. Spinal cord
 - (iii) T.S. Ovary 9
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