

Extra,



V.P. & R.P.T.P. SCIENCE COLLEGE
VI - SEMESTER INTERNAL EXAM
ZOOLOGY, US06CZ0004 (Animal Physiology)

9-3-2018, Saturday

Time: 10am to 12noon

Marks: 50

Q-1. MULTIPLE CHOICE QUESTIONS.

(8)

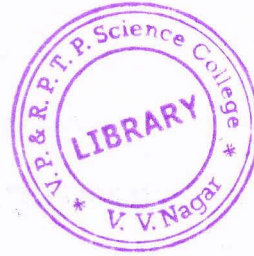
1. Eggs which contain enormous food reserve are known as
(a) A lecithal (b) Microlecithal (c) Mesolecithal (d) Macrolecithal
2. Haploid parthenogenesis occurs in
(a) Bees (b) Wasps (c) Rotifers (d) All of these
3. The blastula of Amphioxus is known as
(a) Steroblastula (b) Periblastula (c) Coeloblastula (d) Discoblastula
4. In Amphioxus, fertilization is
(a) Internal (b) External (c) Self- fertilized (d) All of these
5. The third cleavage in Frog is
(a) Horizontal (b) Meridional (c) Marginal (d) None
6. The habitat of larval stage of Frog is
(a) Terrestrial (b) Aquatic (c) Aerial (d) Both (a) & (b)
7. The area pellucida in Chick embryo is located
(a) Centrally (b) Horizontally (c) Peripherally (d) Both (b) & (c)
8. First somite is formed in Chick after
(a) 10 hours (b) 18 hours (c) 20 hours (d) 30 hours

Q-2. ANSWER IN SHORT. (ANY FIVE)

(10)

1. Explain the term parthenogenesis and name its different types.
2. Draw and labeled the mature Graffian follicle.
3. Write about metamorphosis in Amphioxus.

4. Write about ovum of Amphioxus.
5. Write about spawning in Frog.
6. Write about functions of Frog jelly.
7. Describe the chemical composition of hen's egg.
8. Write about nature of the hen's fertilized egg.



- Q-3. (a) Describe the primary egg membranes. (4)
- (b) Explain the types of eggs according to the distribution of yolk. (4)

OR

- Q-3. (a) Describe the haploid parthenogenesis with example. (4)
- (b) Describe the spermatogenesis with diagram. (4)
- Q-4. Describe the gastrulation in Amphioxus. (8)

OR

- Q-4. (a) Explain the larval development of Amphioxus. (5)
- (b) Describe the blastula stage of Amphioxus. (3)
- Q-5. (a) Write a note on cleavage of Frog. (4)
- (b) Describe the Fate map of Frog. (4)

OR

- Q-5. Write an essay on metamorphosis in Frog. (8)

OR

- Q-6. Describe the 48 hours of chick embryo. (8)

OR

- Q-6. Describe the types of extra embryonic membranes of Chick with labeled diagram. (8)