

[19]

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Sardar Patel University  
B. Sc. Semester IV Examination 2016  
Chordates, Physiology, Immunology and Ecology  
US04EZOO 01  
12<sup>th</sup> April 2016, Tuesday  
10:30 am to 12:30 pm

QI Multiple Choice Questions.

[10]

1. Liver of Dogfish is
  - a. single lobed
  - b. trilobed
  - c. bilobed
  - d. Four lobed
2. The teeth in dogfish are modified
  - a. ctenoid scales
  - b. cycloid scales
  - c. placoid scales
  - d. bony plates
3. Nostrils in shark are
  - a. dorsal & olfactory
  - b. Ventral & respiratory
  - c. dorsal & respiratory
  - d. Ventral & olfactory
4. \_\_\_\_\_ draw the ovum into uterine tube.
  - a. Fimbriae
  - b. Penis
  - c. Follicle
  - d. Epididymis
5. \_\_\_\_\_ refers to the external genitals of the female.
  - a. Vulva
  - b. Uterus
  - c. Penis
  - d. None
6. The result of fusion of female and male pronuclei is known as
  - a. zygote
  - b. morula
  - c. blastomeres
  - d. foetus
7. Which of the following immunoglobulin is pentamer?
  - a. Ig A
  - b. Ig G
  - c. Ig M
  - d. Ig E
8. \_\_\_\_\_ is a secondary lymphoid organ.
  - a. Thymus
  - b. Bone marrow
  - c. MALT
  - d. All of the above
9. \_\_\_\_\_ is an example of cold blooded animal.
  - a. Rabbit
  - b. Lion
  - c. Snakes
  - d. Pigeon
10. \_\_\_\_\_ are heterotrophs.
  - a. Plants
  - b. Grass
  - c. Animals
  - d. None of these

[P.T.O]

**QII Answer the following in short.(Attempt any Ten)**

**[20]**

1. State location and functions of Ampulla of Lorenzini .
2. What are mermaid purses?
3. Mention the types of fins in shark.
4. What is menopause?
5. State location and functions of scrotum.
6. What is morula?
7. Define innate immunity.
8. What is first line of defence?
9. Give functions of interferons.
10. Define Ecosystem.
11. Mention the abiotic components of an ecosystem.
12. What is diapause?

**QIII a.** Explain respiratory organs in shark.

**[06]**

**b.** Describe the structure and development of placoid scales in scoliodon.

**[04]**

**OR**

**QIII a.** Write a note on : Brain in shark.

**[06]**

**b.** Give locations of the body apertures of scoliodon.

**[04]**

**QIV a.** Describe the microscopic structure of ovary in human.

**[05]**

**b.** Give an account on fertilization.

**[05]**

**OR**

**QIV a.** Write a note on mammary glands in human.

**[05]**

**b.** Give an account on puberty.

**[05]**

**QV** Explain secondary lymphoid organs.

**[10]**

**OR**

**QV** Describe the structure and functions of immunoglobulins.

**[10]**

**QVI** Write notes on : a. Effects of temperature on animals

**[07]**

b. Thermal stratification

**[03]**

**OR**

**QVI a.** Give an account on biotic components of an ecosystem.

**[06]**

**b.** Discuss temperature tolerance in animals.

**[04]**

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(2)