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SARDAR PATEL UNIVERSITY
S. Y. B. Sc. (FOURTH SEMESTER) EXAMINATION

2016

WEDNESDAY, 13TH APRIL

Time: 10.30 a.m. to 01.30 p.m.

US04CZOO02 (ZOOLOGY)

(PHYSIOLOGY, ECONOMIC ZOOLOGY, TOXICOLOGY AND WILDLIFE)

Note: 1. Answers of all the questions (including multiple choice questions) should be written in the provided answer book only

2. Figures to the right indicate the full marks of sub question

3. Draw neat and labelled diagrams wherever necessary

Maximum Marks: 70

Q. 1. Multiple choice questions

(10)

1. The sperm maturation takes place in _____.
a. Testis b. Epididymis c. Vas deference d. Seminal vesicle
2. Ovaries secrete _____ hormones.
a. Progesteron b. Estrogen c. Inhibin d. All of these
3. Metamorphosis of spermatid to sperms is termed as _____.
a. Oogenesis b. Spermiogenesis c. Gametogenesis d. All of these
4. T cells of immune system mature in _____.
a. Spleen b. Bone marrow c. Thymus d. Lymph nodes
5. Kupffer cells in the liver are involved in _____.
a. Blood clotting b. Pinocytosis c. Phagocytosis d. Antibody production
6. The ability to carry out adaptive immune response is called _____.
a. Phagocytosis b. Immunocompetence c. Immunity d. Clonal selection
7. The species of honey bee that yield maximum amount of honey is _____.
a. *Apis dorsata* b. *Apis indica* c. *Apis florae* d. *Apis mellifera*
8. Median lethal dose in toxicological study refers to _____.
a. NOEL b. LC₅₀ c. LD₅₀ d. None of these
9. Kaziranga National park is situated in _____ for the protection of Rhinoceros.
a. Assam b. Punjab c. Gujarat d. Rajasthan
10. Velavadar National park is for the protection of _____.
a. Crocodile b. Lion c. Tiger d. Blackbuck

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Q. 2. Answer the following questions in short (Any Ten)

(20)

1. State location and function of Prostate gland.
2. What is implantation?
3. State the location and function of Epididymis
4. Diagrammatically show pathway of endogenous antigen processing
5. Write about primary and secondary lymphatic organs and tissues
6. What is inflammation? What is fever?
7. Give a brief account on economic importance of Lac
8. Explain control of vehicular pollution
9. Enlist different groups of pesticides
10. Name different zones of a Biosphere reserves with brief details
11. Define: Endangered animals and Extinct animals
12. Name any four wildlife sanctuaries of Gujarat with location and major fauna

Q. 3. Describe female reproductive cycle in detail

(10)

OR

Q. 3. a. Describe male reproductive organs

(06)

b. Write a short note on Oogenesis

(04)

Q. 4. Write in detail about non-specific resistance to diseases

(10)

OR

Q. 4. a. Write a note on the functions and structure of antibody with a diagram

(06)

b. Write about types of Adaptive Immunity

(04)

Q. 5. a. Write a short note on: Toxic effects of Pesticides

(05)

b. Write a short note on Sericulture

(05)

OR

Q. 5. a. Write a short note on Apiculture

(05)

b. Write a note on Heavy metal toxicity

(05)

Q. 6. a. Mention in detail about importance/value of wildlife

(06)

b. Write a short note on causes of wildlife destruction

(04)

OR

Q. 6. a. Write a note on wildlife organizations

(06)

b. Write about Indian Elephant and Asiatic Lion

(04)

X
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