

SEAT No. _____

No. of Printed Pages: 2

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SARDAR PATEL UNIVERSITY

S.Y.B.Sc (THIRD SEMESTER) EXAMINATION.

FRIDAY, 01/01/2021

STIME: 2:00 pm. — 4:00 p.m.

US03CZOO 22 (ZOOLOGY)

(HUMAN PHYSIOLOGY & ADAPTATION)

TOTAL MARKS :70

- Q-1 CHOOSE CORRECT ANSWER : [10]
1. HCL secreting cells of gastric glands are called :
a. Oxyntic cells b. Goblet cells c. Zymogen cells d. mucous cells
 2. Pepsin digests :
a. Protein b. Fat c. Carbohydrates d. All of these.
 3. The Lymph containing fat appears milky is called as :
a. Chyle b. Chilomicron c. Lacteals d. Emulsion
 4. Which of these contain vocal cords?
a. Ribs b. Diaphragm c. Intercostal muscles. d. Larynx.
 5. Which of the following prevents collapsing of trachea ?
a. Diaphragm b. Cartilagenous rings c. Ribs d. Muscles
 6. Role of pace maker is to :
a. Initiate wave of contraction in heart b. Increases heart beat.
c. Regulate blood supply to heart d. Decreases heart beat.
 7. Exocoetus is an example of _____ adaptation.
a. Arboreal. b. Fossoreal. c. Primary.aquatic d. Secondary.aquatic.
 8. Bat is adapted for -----
a. Active flight. b. Passive flight. c. Both a and b. d . None.
 9. Blood vessels supplying oxygenated blood to heart muscles are -----
a. Carotid artery. b. Coronary artery c. Pulmonary artery d. Phrenic artery
 10. Scansorial adaptation means animal adapted for _____.
a. Burrowing. b. Tree living.
c. Fast running d. none of these.

[1]

[P.T.O.]

- Q-2
- 1 _____ is the largest salivary gland.
 - 2 Chloride shift is required for transportation of _____.
 - 3 One complete cardiac cycle takes _____ to occur.
 - 4 Pigeon exhibits _____ adaptation.
 - 5 Pancreas secretes gastrin hormone.- TRUE or FALSE ?
 - 6 Autotrophs uses atmospheric oxygen.- TRUE or FALSE ?
 - 7 Hydrolymph found in Cockroach. TRUE or FALSE ?
 - 8 Stick insect shows mimicry. TRUE or FALSE ?

[08]

Q-3 **ANSWER IN SHORT : (ANY TEN)**

[20]

- 1 What is Defecation ?
- 2 Give the name of events occur during one complete cardiac cycle.
- 3 Which factors regulates the process of genesis of red blood cells ?
- 4 Write significance of intestinal villi.
- 5 What is Respiration ?
- 6 Write about symptoms of Pneumonia.
- 7 List the name of digestive organs.
- 8 Write about Circulatory media.
- 9 Write about tuberculosis.
- 10 What is syndactyli ?
- 11 What are the electric organs?
- 12 Write about significance of feathers in Volant adaptation.

Q-4 **ATTEMPT ANY FOUR.**

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- 1 Write a note on : Ulcerative colitis.
- 2 Explain digestion in stomach.
- 3 Describe the internal structure of human heart & mechanism of circulation.
- 4 Describe about ABO system of blood group and add a note on Rhesus blood factor.
- 5 Explain briefly about Lung volumes and capacity.
- 6 Discuss - Cystic fibrosis.
- 7 Describe: Burrowing adaptations.
- 8 Write a note on : Echolocation in Bat.

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