

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.**

[32]

- 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.

[2]