

SEAT No. _____



No. of Printed Pages: 2

[12/A-17]

SARDAR PATEL UNIVERSITY,

S.Y.B.Sc.(THIRD SEM.) EXAMINATION,

US03CZOO 02 - (Physiology and adaptation)

DATE : 26/09/2022

TIME : 12:30 TO 2: 30 P.M.

Total marks :70

Q-1 CHOOSE CORRECT ANSWER :

10

- 1 _____ is called as polymorphonuclear cells
a. Red blood cells b. Monocytes c. Erythrocytes d. Neutrophils.
- 2 The valve present between right auricle and right ventricle is :
a. Bicuspid valve b. Tricuspid valve c. Pulmonary valve d. none
- 3 Emphysema is a disease of:
a. Lung b. Heart c. Liver d. Kidney.
- 4 _____ is not related with respiration.
a. Pulmonary valve b. Cricoid cartilage c. Vocal cords d. Epiglottis
- 5 Genital herpes affects the _____ system.
a. Digestive b. Respiratory c. Nervous d. Reproductive .
- 6 The scientific name of hook worm is :
a. Dracunculus medinensis b. Ancylostoma duodenale c. Trichinella spiralis
d. None
- 7 _____ is the examples of burrowing adaptation.
a. Electric-ray b. Stick insect c. Guinea pig d. Earthworm
- 8 The animal that does not drink water is :
a. Kangaroo rat b. Kiwi c. Camel d. Gazelle
- 9 Contraction of left ventricle pumps the blood into _____
a. Coronary artery b. Pulmonary artery c. Aorta d. Dorsal aorta
- 10 Arboreal means _____ animal.
a. Tree dwelling b. aquatic c. bottom dwelling d. None

- Q-2
- 1 Largest white blood cells are _____ .
 - 2 Oxygen and Carbon dioxide are _____ gases .
 - 3 Aids occur due to infection of _____ virus .
 - 4 Gills and Fins are characters of _____ adaptation.
 - 5 Blood transfusion means blood sucking. – TRUE/ FALSE ?
 - 6 Diaphragm is the part of digestive system. – TRUE / FALSE ?
 - 7 Guinea worm is bisexual animal. - TRUE / FALSE ?
 - 8 Flying fish is adapted to fly in the sky like birds - TRUE / FALSE ?
- 08

Q-3 **ANSWER IN SHORT : (ANY TEN)** 20

- 1 Enlist the events occur during one complete cardiac-cycle.
- 2 Differentiate between Hydro lymph and Haemo lymph.
- 3 What is pace maker ? Explain its role.
- 4 Enlist the human respiratory organs.
- 5 What is lung-volume ?
- 6 How oxygen is transported in the blood.
- 7 Define : Anemia & Enlist the various types of Anemia.
- 8 Draw labelled diagram of Entamoeba histolytica.
- 9 Write about AIDS.
- 10 What is an adaptation? Enlist the different types of adaptations found in animals.
- 11 Define the word mimicry with examples.
- 12 Explain briefly : Gliding flight.

Q-4 **Attempt any Four (4 X 8)** 32

- 1 Describe 'ABO' system of blood groups & add a note on Rhesus blood factor.
- 2 Write a note on : Circulatory media.
- 3 Write a short notes on : Human respiratory system.
- 4 Describe: Transport of oxygen and carbon dioxide.
- 5 Write a brief note on : Gonorrhoea.
- 6 Describe : Entamoeba histolytica.
- 7 Explain : Echolocation.
- 8 Write a note on : Desert adaptations.

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