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Seat No : _____

No. of Printed Pages : 02

SARDAR PATEL UNIVERSITY

B. Sc. (THIRD SEMESTER) EXAMINATION

TUESDAY, 26TH NOVEMBER, 2019

Time: 2.00 p.m. to 5.00 p.m.

US03CGEN22 (GENETICS)

(ANIMAL PHYSIOLOGY)

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. Blood vessels supplying blood to heart muscles are _____.
a. Carotid artery b. Pulmonary artery c. Coronary artery d. Phrenic artery
2. In addition to Neutrophils _____ carry out phagocytosis.
a. Monocytes b. Lymphocytes c. Erythrocytes d. Thrombocytes
3. Hypertension or high blood pressure may damage _____.
a. Kidney b. Brain c. Heart d. All of these
4. _____ membrane encloses and protects the lungs.
a. Pericardium b. Epicardium c. Pleural d. Meninges
5. The region from where trachea divides into primary bronchi is known as _____.
a. Carina b. Cricoid cartilage c. Ethmoid cartilage d. Larynx
6. Steroid hormone is secreted by _____.
a. Adrenal cortex b. Adrenal Medusa c. Pancreas d. All of these
7. Hyposecretion of glucocorticoids and aldosterone causes _____.
a. Graves disease b. Cushing's syndrome c. Goiter d. Addison's disease
8. _____ is commonly known as Guinea worm.
a. *Trypanosoma* b. *Dracunculus* c. *Taenia* d. *Schistosoma*
9. _____ type of adaptation is exhibited by Chameleons.
a. Cursorial b. Fossorial c. Arboreal d. Volant
10. Desert lizards are having _____ type of skin.
a. Hydrosopic b. Hydrophobic c. Hygroscopic d. All of these

(1)

(P.T.O.)

Q. 2. Answer the following questions in short (Any Ten) (20)

1. Enlist types of Anemia
2. Name all the clotting factors responsible for blood clotting
3. Draw the chart showing formation of blood cells. Name the process.
4. What is Bronchial tree?
5. What is COPD? Give details
6. Explain: Inspiratory and Expiratory Reserve Volume
7. Name water soluble hormones
8. Describe the internal structure of Adrenal gland.
9. Name hormones secreted by Ovary
10. Describe burrowing adaptations with example.
11. Name the diseases caused by *Trypanosoma* and *Ancylostoma* with symptoms.
12. What is Camouflage? Explain it with example.

Q. 3. a. Name primary and secondary lymphatic organs and describe lymph node (06)
b. Write a short note on blood grouping (04)

OR

Q. 3. a. Describe structure of human heart in detail (06)
b. Write a detailed note on Electrocardiogram (04)

Q. 4. a. Describe in detail about lung volumes and capacities (06)
b. Write a note on Pharynx (04)

OR

Q. 4. a. Write a detailed note on: Pneumonia and Emphysema (06)
b. Describe the processes of Exhalation (04)

Q. 5. State location of Pituitary gland and mention secretions of anterior and posterior parts of Pituitary gland . (10)

OR

Q. 5. a. Write about Hypothyroidism and hyperthyroidism in detail (05)
b. Give details about Pancreas as an endocrine gland with functions (05)

Q. 6. Give an account of fresh water adaptations with examples (10)

OR

Q. 6. a. Write a short note on *Enterobius*: pathogenesis, treatment and control (05)
b. Write a short note on Arboreal adaptations (05)

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(2)