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SEAT No. _____

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SARDAR PATEL UNIVERSITY

NOVEMBER 2022

PHYSIOLOGY AND ADAPTATION [ZOOLOGY]

US 03 CZOO 52

DATE: 16/11/2022, Wednesday

MARKS: 70

TIME: 10.00 TO 1.00 PM

B.Sc - SEM-III

Q-1 MULTIPLE CHOICE QUESTIONS:

[10]

1. WHICH OF THE FOLLOWING IS A SITE FOR DIGESTION OF FOOD?
A] SPLEEN B] DUODENUM C] LIVER D] PANCREAS
2. WHICH OF THE FOLLOWING IS NOT A PART OF TOOTH ?
A] CROWN B] ROOT C] NECK D] HEAD
3. LACTEALS ARE EXCLUSIVELY USED TO ABSORB
A] MONOGLYCERIDES B] DI-PEPTIDES C] DISACCHARIDES D] WATER
4. PRIMARY BRONCHUS ARISE FROM
A] TRACHEA B] SECONDARY BRONCHUS C] BRONCHIOLE D] ALVEOLI
5. NORMAL OXYGEN PRESSURE IN ALVEOLI
A] 40 MMHG B] 100 MMHG C] 60 MMHG D] 46 MMHG
6. MAJOR AMOUNT OF CARBON DIOXIDE IS TRANSPORTED THROUGH
A] BICARBONATE IONS B] BLOOD PROTEINS C] PLASMA D] HEMOGLOBIN
7. RBCS ARE FORMED FROM
A] MYELOID B] LYMPHOID C] ERYTHROID D] MACROPHAGE
8. ANIMALS ACTIVE IN NIGHT CALLED?
A] ANNUAL B] DIURNAL C] CREPUSCULAR D] NOCTURNAL
9. ANIMALS USE CAMOUFLAGE BECAUSE
A] TO HUNT OR HIDE B] FOR FUN C] TO SLEEP D] ALL OF THESE
10. WHICH OF THE FOLLOWING IS TERRESTRIAL HABITAT ?
A] OCEAN B] MOUNTAIN C] SKY D] SEA

Q-2 SHORT QUESTIONS [ANSWER ANY TEN]

[20]

1. NAME THE PALATES AND ITS FUNCTIONS
2. WRITE ABOUT GALL BLADDER
3. CAUSES OF PEPTIC ULCER
4. WRITE ABOUT NASAL CAVITY
5. DRAW THE STRUCTURE OF HEMOGLOBIN
6. WRITE THE SYMPTOMS OF ASTHMA
7. WRITE BASIC FUNCTIONS OF BLOOD
8. DIFFERENTIATE NEUROGENIC AND MYOGENIC HEARTS
9. WHAT ARE THE TREATMENTS OF ANEMIA?
10. WRITE PRIMARY CHARACTERS OF AERIAL ADAPTATIONS
11. WRITE ABOUT BIOLUMINESCENCE
12. WRITE ABOUT CAMOUFLAGE WITH AN EXAMPLE

[41]

(P.T.O.)

- Q-3 A] EXPLAIN DIGESTION IN STOMACH [05]
B] EXPLAIN ROLE OF PANCREAS WITH THEIR ENZYMES [05]
OR
- Q-3 A] EXPLAIN ABSORPTION IN INTESTINE [05]
B] DESCRIBE CAUSES, SYMPTOMS AND TREATMENT OF ULCERATIVE COLITIS [05]
- Q-4 A] EXPLAIN OXYGEN TRANSPORTATION THROUGH BLOOD [05]
B] DESCRIBE UPPER RESPIRATORY ORGANS [05]
OR
- Q-4 A] GIVE DETAIL ACCOUNT OF PULMONARY VOLUMES [05]
B] DESCRIBE CAUSES, SYMPTOMS AND TREATMENT OF PNEUMONIA [05]
- Q-5 A] EXPLAIN DOUBLE CIRCULATION IN MAMMALIAN HEART [05]
B] DESCRIBE CAUSES, SYMPTOMS AND TREATMENT OF ATHEROSCLEROSIS [05]
OR
- Q-5 A] EXPLAIN CORRELATION OF ECG WITH SYSTOLE AND DIASTOLE OF HEART [05]
B] EXPLAIN HEMATOPOIESIS [05]
- Q-6 A] EXPLAIN PROCESS FOR DEVELOPING DESERT ADAPTATIONS [05]
B] EXPLAIN ACOUSTICAL MECHANISM IN BATS [05]
OR
- Q-6 A] EXPLAIN ELECTRIC ORGANS IN FISHES [05]
B] DESCRIBE MECHANISM OF ECHOLOCATION [05]