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SARDAR PATEL UNIVERSITY
B.Sc. - III SEM EXAMINATION
JUNE - 2022

HUMAN PHYSIOLOGY AND ADAPTATION [ZOOLOGY]

US 03 CZOO 22

TIME: 12.00 TO 2.00 PM

DATE: 14/06/22, Tuesday

MARKS: 70

Q-1 MULTIPLE CHOICE QUESTIONS: [CHOOSE MOST APPROPRIATE OPTION] [10]

1. PAROTID IS.....GLAND
A] SALIVARY B] THYROID C] PARATHYROID D] GASTRIC
2. THE CROWN, ROOT, AND NECK ARE THE PARTS OF
A] HEAD B] FOOT C] TONGUE D] TOOTH
3. WHICH OF THE FOLLOWING IS A SITE FOR DIGESTION OF FOOD?
A] LIVE B] DUODENUM C] LIVER D] PANCREAS
4. TRACHEA DIVIDES INTO
A] PRIMARY BRONCHUS B] SECONDARY BRONCHUS
C] BRONCHIOLE D] ALVEOLI
5. TOTAL LOBS FOUND IN HUMAN LUNGS ARE.
A] 1 B] 3 C] 5 D] 7
6. MEMBRANE THROUGH O₂ AND CO₂ EXCHANGED IN LUNGS IS
A] PRIMARY B] SECONDARY C] RESPIRATORY D] EPITHELIAL
7. RBCS ARE FORMED FROM
A] MYELOID B] LYMPHOID C] ERYTHROID D] MACROPHAGE
8. THE WALL OF ARTERY IS ALWAYSTHAN VEIN
A] THINNER B] THICKER C] EQUAL D] WEAKER
9. ANIMALS USE CAMOUFLAGE BECAUSE
A] HUNT OR HIDE B] FOR FUN C] TO SLEEP D] ALL OF THESE
10. WHICH OF THE FOLLOWING IS COLD HABITAT ADAPTATION?
A] WINGS DEVELOPMENT B] FAT DEPOSITION
C] CLAWS D] TAIL

Q-2

[08]

TRUE OR FALSE:

1. AVES HAVE LEFT AORTIC ARCH
2. S A NODE IS ALSO CALLED PACEMAKERS
3. GALL BLADDER IS A SECRETARY GLAND
4. AQUATIC ENVIRONMENT IS ALSO CALLED ARID

(1)

(P.F.O)

FILL IN THE BLANKS:

1. CLOSE CIRCULATORY SYSTEM ARE FOUND IN[COCKROACH, EARTHWORM]
2. SUM OF INSPIRATORY AND EXPIRATORY RESERVE VOLUMES PLUS THE TIDAL VOLUME AND RESIDUAL VOLUME IS[TOTAL LUNG CAPACITY, RESPIRATORY CAPACITY]
3. GASTRO ENTERITIS CAUSED BY.....[E-COLI, WORM]
4. ANIMALS CONSUMES PLANTS AND VEGITATION ARE CALLED.....
[HERBIVOROUS, CARNIVOROUS]

Q-3 SHORT QUESTIONS [ANSWER ANY TEN]

[20]

1. COMPOSITION OF SALIVARY JUICE
2. NAME THE BILE SALTS
3. RESPONSIBLE FACTORS FOR PEPTIC ULCER
4. LIST OUT THE RESPIRATORY ORGANS
5. DRAW THE T.S OF ELEMENTARY CANAL
6. WRITE THE SYMPTOMS OF ASTHMA
7. WRITE ABOUT CELLULAR COMPONENTS OF BLOOD
8. DIFFERENTIATE NEUROGENIC AND MYOGENIC HEARTS
9. WHAT ARE THE TREATMENTS OF ANEMIA?
10. WRITE ANY FOUR TERRESTRIAL ADAPTATIONS
11. WRITE ABOUT BIOLUMINESCENCE
12. GIVE EXAMPLES OF MIMIC ANIMALS

Q-4 LONG QUESTIONS [ANSWER ANY FOUR]

[32]

1. EXPLAIN DIGESTION OF PROTEIN IN DIGESTIVE SYSTEM
2. DESCRIBE CAUSES, SYMPTOMS AND TREATMENT OF GASTRO ENTERITIS
3. EXPLAIN O₂ TRANSPORTATION IN BLOOD
4. DESCRIBE CAUSES, SYMPTOMS AND TREATMENT OF PNEUMONIA
5. EXPLAIN STRUCTURE AND CIRCULATION OF MAMMALIAN HEART
6. DESCRIBE CAUSES, SYMPTOMS AND TREATMENT OF ATHEROSCLEROSIS
7. EXPLAIN BURROWING ADAPTATIONS
8. EXPLAIN ELECTRIC ORGANS IN FISHES

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