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[23/A-5]

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SARDAR PATEL UNIVERSITY
B.SC. Vth Semester Examination 2018
Subject Code: US05CBCH05
(Human Physiology and Clinical Endocrinology)

Thursday, 1st November.
10:00 AM. To 1:00 PM

Total Marks: 70

Q1. Choose the correct option and write it in the answer sheet: [10]

1. Cell combines to form tissue, tissue combine to form.....
 a) Organ b) System
 c) Cell d) Organism

2. Sulphur mostly occurs in proteins as sulphur containing.....
 a) Aminoacid b) Sulpholipids
 c) Fattyacids d) none of these

3. Iodine is used in synthesis of.....
 a) TSH b) T3T4
 c) ACTH d) TRH

4. What is circulatory system?
 a) Breathing system b) Food processing system
 c) Blood transport system d) Immune system.

5. From what source do cells get their food?
 a) Blood b) C.S.F.
 c) CO2 d) O2

6. Which is the last stop of the urinary track?
 a) Bladder b) Gall bladder
 c) Ureter d) Urethra

7. A brush border is formed in.....
 a) DCT b) PCT
 c) Glomeruli d) Loop of Henle.

8. Which is not symptom of diabetes mellitus?
 a) Itchy skin b) Polyurea
 c) Fever d) Thirst

9. If a man takes large amount of protein he is likely to excrete more amount of.....
 a) Glucose b) Ketonebody
 c) Urea d) salts

10. Secretions of pituitary glands are controlled by
 a) Hypothalamus b) Liver
 c) Kidney d) Cerebrum

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[PT0]

Q2. Answer the followings in short (any ten)

[20]

1. What are the levels of structural organisation in the human body?
2. What are the four categories of tissues in the human body?
3. When we inhale, where does the air go?
4. How circulatory system regulates body temperature?
5. Define Neurotransmitter.
6. Write importance of ureter and urinary bladder.
7. Define Homeostasis.
8. What are Voluntary and Involuntary muscles?
9. What is Polydipsia?
10. What is normal blood sugar level?
11. What are various hyperglycaemic hormones?
12. Define endocrinology and give examples of steroid hormones.

- Q3. A) Write the names of respiratory, digestive and nervous systems organs. [05]**
B) Write importance of Magnesium and sulphur [05]

OR

- Q3. What are exocrine and endocrine glands? Write about all endocrine glands/tissues/organs with their secretion and biological importance. [10]**

- Q4. Describe in detail CO₂ can be transported by three ways dissolved in plasma, as bicarbonates and as carbamino hemoglobin. [10]**

OR

- Q4. A) Write about respiratory acidosis. [04]**
B) Describe the principles of O₂ transport in the blood. [06]

- Q5. A) What is myoglobin? Describe composition of skeletal muscle. [06]**
B) Which organs make up musculoskeletal system? [04]

OR

- Q5. A) What structures make up the urinary system? Draw and label diagram of functional unit of Kidney. [06]**
B) Why doesn't glucose and protein normally appear in the urine? [04]

- Q6. A) How can diabetes affect heart? [04]**
B) Write about effect of T3T4 and hGH on carbohydrate and protein metabolism. [06]

OR

- Q6. What is difference between IDDM and NIDDM? How is diabetes diagnosed? [10]**