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SARDAR PATEL UNIVERSITY
M. Sc. Pharmaceutical Chemistry (Semester-I) Examination
Wednesday, 06/04/2016; Time-02:30 PM to 05:30 PM
SUBJECT CODE: PS04CPCH02
SUBJECT TITLE: Medicinal Chemistry-III

Maximum Marks: 70

Note: All the questions are compulsory.
Figure to the right indicates mark of the question.

Q-1 Choose the appropriate answer of the following **[8×1] 08**

1. Diuretics are the drugs:
a. That increase body fluid b. That stimulate body
c. That reduces body fluid d. None
2. Angina Pectoris
a. Chest pain due to reduced supply of oxygen
b. Head ache due to oversupply of oxygen
c. Chest pain due to oversupply of oxygen
d. Chest pain due to oversupply of oxygen
3. Common cold is characterized by
a. increased nasal discharge and reddened nose
b. Decreased nasal discharge
c. Stomach pain
d. None.
4. Antiarrhythmic agents
a. Increases blood vol. in vessel b. Elevates slow rhythms of heart
c. Decreases blood vol. in vessel d. Suppress fast rhythms of heart
5. It reduce the symptoms of excess gas production in gastrointestinal tract
a. Antiflatulents b. Carminatives c. Demulcents d. None
6. Increase in Hydrochloric acid (HCl) secretion causes:
a. causes gastric hyperacidity b. peptic ulcers
c. Both a & b correct d. Not in the option.
7. Thyroid hormones are made from
a. Aniline and iodine b. Iodine and insulin
c. Iodine and tyrosine d. Aniline and insulin
8. Hormones are chemical messengers, secreted in small amounts by:
a. endocrine glands b. H₂ receptor c. Exocrine glands d. B-receptor

Q-2 Short Answer type questions. (Any seven) **[7X2] 14**

1. Describe Laryngitis.
2. Give the Uses of diuretics.
3. Elaborate the nose spray.
4. Describe the symptoms of pneumonia.

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5. Give the symptom and causes of Congestive Heart failure.
 6. Explain the term Carminatives with suitable example.
 7. Define Appetite Stimulants and Appetite suppressants.
 8. Define types and controls of Hormones.
 9. Give the advantages and disadvantages of Metformin.
- Q3. A. Write a note on loop diuretics with suitable examples. 06
- B. What is centrally acting antitussive agent. Write the mode of action and synthesis of Benzonatate. 06
- OR
- B. Synthesis and mechanism of action of Theophylline. 06
- Q4. A. Write a note on anti-hyperlipidemic agents. 06
- B. Give the classification of expectorant. Describe the mode of action of Guaifensin and ammonium chloride. 06
- OR
- B. Give the synthesis, mode of action, and SAR of chlorothiazide. 06
- Q5. A. Give the classification of antiulcer agents with suitable example and mode of action of H₂ – receptor antagonist. 06
- B. Write a note on anti-emetics. 06
- OR
- B. Give the synthesis of Omeprazole and also describe the mode of action and metabolism of proton pump inhibitor 06
- Q6. A. Write a note on Diabetes. 06
- B. Elaborate the term Hypothyroidism and Hyperthyroidism. Give the synthesis and mode of action of methylthiouracil. 06
- OR
- B. Describe the role of insulin. How does it release and regulate the glucose level and also give its action, effects and associated problems. 06
