

SE

[A-104]

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SARDAR PATEL UNIVERSITY
M. Sc. Pharmaceutical Chemistry (Semester-IV) Examination
Thursday, 23/04/2015; Time-2:30 PM to 5:30 PM
SUBJECT CODE: PS04CPCH02
SUBJECT TITLE: Medicinal Chemistry-III

Maximum Marks: 70

Note: (1) All questions are compulsory.

(2) Figure to right indicates total marks of question.

Q-1 Choose the correct option for the following: 1 × 8

1. **Decrease in the diameter of blood vessels is known as:**
a. Perfusion b. Vasoconstriction
c. Angina d. None
2. **The heart is unable to pump enough blood to body system to meet the needs:**
a. Angina pectoris b. Congestive heart failure (CHF)
c. Analgesic d. None
3. **Hemophilus influenzae pneumonia is caused by**
a. an aerobic gram negative rod b. H. influenzae
c. Both a & b d. None
4. **Asthma**
a. Difficulty in breathing b. Characterized by dyspnea
c. Both a & b d. none
5. **Reduce the symptoms of excess gas production in gastrointestinal tract.**
a. Carminatives b. Flatulents
c. Demulcents d. Antiflatulents
6. **Agents which specifically promote gastroduodenal peristalsis and accelerate gastric emptying are termed as:**
a. Prokinetic b. Narcotic analgesics
c. antipyretic d. Gastric antacids
7. **Thyroid gland is found at:**
a. Lung b. Throat
c. Heart d. None
8. **Hyper-secretion of insulin causes:**
a. Hypoglycemia b. Diabetes Mellitus Type-1
c. Diabetes Mellitus Type-2 d. None

Q-2 Answer the following (Any Seven). 2 × 7

1. Define hypertension.
2. Define myocarditis.
3. What is Wheeze?
4. Describe the decongestants.
5. Elaborate Gastric antacids.
6. Discuss Drugs promoting ulcer healing with suitable example.
7. What is the role of hormones?

8. Draw the structure of Metformin and also give its uses.
9. Give the advantages and disadvantages of sulfonylureas.
- Q-3 A. What is myocardial infarction? Give its causes, physiology and treatment strategy. 6
- B. Write a note on diuretics. 6
- OR**
- B. Give the synthesis of the following: 6
- (a) Glycerol trinitrate
- (b) Metroprolol
- Q-4 A. Write a note on the upper respiratory tract diseases. 6
- B. Describe Asthma and give the synthesis and mechanism of Theophylline. 6
- OR**
- B. Discuss the Hypotheses suggested for relief of cough. Define Sedative Expectorants 6
- Q-5 A. Describe peptic ulcer disease and its prevention. 6
- B. Write a note on antidiarrheal agent 6
- OR**
- B. Give the synthesis and mechanism and action of Ranitidine. 6
- Q-6 A. Define the insulin with reference to production and control, release, regulation and action effect. 6
- B. Describe hypoglycemic agent. Give the SAR of Sulfonyl Urea. 6
- OR**
- B. Elaborate the term hypothyroidism. Give the synthesis and its mechanism of action of methylthiouracil. 6
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