

SARDAR PATEL UNIVERSITY

M.Sc. Chemistry,

Semester IV, External Examination

Saturday, Date: 23-11-2019

Time: 02:00 pm to 05:00 pm

Subject: Medicinal Chemistry Paper: PS04ECHE01

- N.B. (1) Figures to the right indicate marks.
 (2) Attempt all questions.

[Total marks: 70]

Q.1 Choose the correct option from the following.

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1. _____ is the primary organ of drug metabolism.

(a) Heart	(b) Brain
(c) Liver	(d) Kidney
2. Drug administration by _____ is the faster route to reach drug to the blood supply.

(a) injection	(b) rectal
(c) topical	(d) inhalation
3. _____ receptor gives response to a stimulus in internal or external environment of an organ.

(a) Chanel linked	(b) Enzyme linked
(c) Sensory	(d) Intracellular
4. _____ antagonist binds to an allosteric site of receptor.

(a) Silent	(b) Competitive
(c) None competitive	(d) Uncompetitive
5. Disease associated with abnormal thyroid hormone level is _____.

(a) hypertension	(b) goiter
(c) depression	(d) anxiety
6. _____ is uses as potent local anesthetic as procaine.

(a) Chlorpromazine	(b) Azapirones
(c) Diazepam	(d) Benzodiazepines
7. _____ is the cell membrane synthesis inhibitor antibiotics.

(a) Polymyxin	(b) Rifampin
(c) Tigecyclin	(d) Erythromycin
8. In cancer, _____ drugs are uses for treatment.

(a) antibacterial	(b) antineoplastic
(c) antibiotics	(d) psychoactive drugs

Q.2 Answer the following questions. (Any seven)

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1. Give a brief note on Pro-drugs.
2. Write a note on: lock and key model.
3. What are the agencies through which drugs can be eliminated from human body?
4. Explain the Receptor in detail.
5. What are the characteristics of binding sites?
6. Discuss the Antithyroid drugs.
7. What are the Antidepressants.
8. Discuss the mode of action of β -lactum.
9. Explain the E-test.

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C.P.T.O

- Q.3 A Explain pharmacokinetics in terms of time course of drug action. 06
B Write a note on drug absorption and metabolism. 06
- OR
- B Discuss the concept of drug design. 06
- Q.4 A Explain the role of chemical messenger. Discuss briefly their signaling through hormones. 06
B Explain the various receptor types in detail. 06
- OR
- B Explain the binding site and their characteristics properties. 06
- Q.5 A Give the synthesis and uses of any two of the following drugs. 06
(i) Chlorpromazine (ii) Haloperidol (iii) Diazepam
B Discuss in detail antianxiety drugs. Discuss the metabolism of benzodiazepins. 06
- OR
- B Explain the term Hypertension. Give the classification of antihypertensive drugs. 06
- Q.6 A Discuss in detail about chemotherapeutic agents and explain the role of alkalyting agents. 06
B Classify and discuss briefly about Antibiotics. 06
- OR
- B Write a note on Quinolone antibacterials. 06

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