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Paper Id: 150288 Roll No. | | | | | | | | | | |

B. PHARM

(SEM VI) THEORY EXAMINATION 2018-19

PHARMACEUTICAL CHEMISTRY-VII (MEDICINAL CHEMISTRY-II)

Time: 3 Hours ***Total Marks: 70***

Note: 1. Attempt all Sections. If you require any missing data, choose suitably.

SECTION A

1. Attempt *all* questions in brief. 2 x 7 = 14

a. Define ligand.
b. Give two examples of 2D descriptor.
c. Give mode of action and examples of class I antiarrhythmic drugs.
d. Draw the structure of insulin.
e. Write the synthesis of celecoxib
f. Write the mode of action and synthesis of minoxidil.
g. Write mode of action and examples of angiotensin converting enzyme inhibitors.

SECTION B

2. Attempt any *three* of the following: 7 x 3 = 21

a. What is hammet substituent constant? Explain the role of electronic parameter in QSAR.
b. Define and classify antianginal drugs. Discuss mode of action synthesis and uses of Isosorbide dinitrate
c. Write the mode of action synthesis of metformin and propylthiouracil.
d. Define and classify NSAID. Discuss SAR of aryl acetic acid derivatives.
e. Discuss in detail about cosmeceuticals. Write the synthesis of tazarotene.

SECTION C

3. Attempt any *one* part of the following: 7 x 1 = 7

(a) Discuss in detail about 3D QSAR methodologies.
(b) Discuss in detail about structure based drug design

4. Attempt any *one* part of the following: 7 x 1 = 7

(a) Explain in detail about calcium channel blocker.
(b) Explain SAR, mode of action, synthesis and uses of Lovastatin

5. Attempt any *one* part of the following: 7 x 1 = 7

(a) Classify hypoglycemic agents and discuss in detail about thiazolidinediones and alpha glucosidase inhibitors.
(b) Discuss the SAR of Chlorthiazide diuretics and write the synthesis and uses of acetazolamide.

6. Attempt any *one* part of the following: 7 x 1 = 7

(a) Write a note on anticoagulants.
(b) Discuss mode of action, synthesis and uses of paracetamol and mefenamic acid.

7. Attempt any *one* part of the following: 7 x 1 = 7

(a) Define and classify antihistaminic agents. Discuss the mode of action and synthesis of diphenhydramine.
(b) Explain proton pump inhibitor with special reference to rabeprazile.

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