T.Y.B.PHARM. SEMESTER-V (CBCS - 2015 Course) : SUMMER - 2019

SUBJECT: MEDICINAL CHEMISTRY-I

Day: Wednesday
Date: 24/04/2019

Time: 10.00 A.M. TO 01.00 P.M.
Max. Marks: 60

S-2019-4394

N.B:

1) Q. No. 1 and Q. No. 5 are **COMPULSORY**. Out of the remaining attempt **ANY TWO** questions from each Section.
2) Answer to the both sections should be written in **SEPARATE** answer book.
3) Figures to the right indicate **FULL** marks.

SECTION -I

Q.1 Attempt **ANY FIVE** of the following: **(10)**

a) State significance of physicochemical parameters for biological action.
b) Draw Structure mention category and IUPAC name of Hydroflumethazide & Pyridostigmine.
c) Write types of muscarinic receptors with its function.
d) Write about mercurials.
e) Write about generation of nerve impulse.
f) Outline route of synthesis of Acetazolamide.

Q.2 **a)** Explain SAR of Cholinergic agonist. **(07)**
b) Write biosynthesis, metabolism & storage of Acetyl Choline. **(03)**

Q.3 **a)** Write are diuretics. State its MOA. Classify write chemistry & SAR with examples. **(07)**
b) State Fergusson's Principle. **(03)**

Q.4 Write short notes on **ANY TWO** of the following: **(10)**

a) Structural features of choline esterase enzymes.
b) SAR of Antimuscarinic agents.
c) Outline scheme of synthesis of Furosemide & Dicyclomine.

SECTION –II

Q.5 Attempt **ANY FIVE** of the following: **(10)**

a) Draw Structure mention category with IUPAC of Diltiazem & Verapamil
b) Write biosynthesis storage & release of noradrenaline.
c) Write about bufadienolides.
d) Define Agonist & Antagonist with its comparison and examples.
e) Explain Papaverine alkaloids with examples.
f) Outline scheme of synthesis of Propranalol.

Q.6 **a)** Classify agents used in angina. Write Chemistry & SAR with examples. **(07)**
b) Give classification of neuromuscular blocking agents on the basis of MOA. **(03)**

Q.7 **a)** Discuss chemistry, MOA & SAR of ACE inhibitors. **(07)**
b) Discuss indirect sympathomimetics. **(03)**

Q.8 Write short notes on **ANY TWO** of the following: **(10)**

a) Chemistry of Cardeneolides.
b) Antihyperlipedemic Agents.
c) Outline scheme of synthesis of Prazocin & Fenofibrate.

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