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BOP361

B.PHARM.**THEORY EXAMINATION (SEM-VI) 2016-17****MEDICINAL CHEMISTRY-II****Time : 3 Hours****Max. Marks : 100****Note : Be precise in your answer. In case of numerical problem assume data wherever not provided.****SECTION – A****1. Explain the following:****10 x 2 = 20**

- (a) Define QSAR.
- (b) What is soft drug?
- (c) Define prodrug.
- (d) Give the structure and category of Procainamide.
- (e) What is angina pectoris and how will you cure.
- (f) Give the category of following drugs- Methimazole, Spironolactone, Glibenclamide, Mefenamic Acid
- (g) What is NSAIDS? Give any two examples.
- (h) Match the following:

Proton pump inhibitors	Chlorthiazide
NSAIDS	Amlodipine.
Diuretics	Rabeprazole.
Antihypertensive drugs	Diclofenac
- (i) Give the role of Rabeprazole.
- (j) What is Cosmeceuticals?

SECTION – B**2. Attempt any five parts of the following questions:****5 x 10 = 50**

- (a) Discuss the basic concepts of drug design.
- (b) Explain analogue based drug design and structure based drug design,
- (c) Give the classification of Antiarrhythmic drugs also give the synthesis of Atenolol.
- (d) Write the synthesis and MOA of Furosemide.
- (e) Give the synthesis and uses of any two.
 - (i) Glibenclamide,
 - (ii) Spironolactone
 - (iii) Methimazole
- (f) Write the classification of Non steroidal anti-inflammatory drugs also give the MOA of Paracetamol.
- (g) Write about Hypoglycaemic agents. Explain them with suitable examples.
- (h) Discuss the, structure activity relationship, mode of action and uses of Aspirin.

SECTION – C**3. Attempt any two parts of the following questions:****2 x 15 = 30**

- (a) Explain the basic concepts of QSAR. Discuss about molecular descriptors with reference to the 2D and 3D parameters.
- (b) Write the classification of Antihistaminic drugs. Give SAR and synthesis of Diphenhydramine.
- (c) Write in detail about the Antihypertensive drugs with reference to the Captopril.