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B. Pharmacy (Seventh Semester) Examination,
Nov.-Dec. 2017

(New Scheme)

(Pharmacy Branch)

MEDICINAL CHEMISTRY-III

Time Allowed : Three hours

Maximum Marks : 70

Note : Attempt any five questions. Each question carries equal marks.

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1. Classify antimalarial drugs with chemical structure. Discuss malaria life cycle, mode of action of antimalarial drugs and SAR of 4-aminoquinoline derivatives. 14

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2. What are Diuretics? Classify them with chemical structure. Discuss the SAR and synthesis of thiazide derivatives.
3. (a) Classify oral hypoglycemic agents with chemical structure. Discuss SAR of sulphonylurea.
(b) Write exhaustive note on antiviral agents.
4. What are β -lactam antibiotics? Discuss the mechanism of action and SAR of cephalosporin.
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5. Classify antihypertensive agents. Give synthesis of clonidine and methyldopa.
6. (a) Discuss SAR of Testosterone.
(b) Write synthesis of progesterone from diosgenin.
7. Give structure and synthesis of any four : $4 \times 3\frac{1}{2} = 14$
- (i) Methotrexate
(ii) Losartan
(iii) Furosemide CSVТУonline.com
(iv) Acetazolamide
(v) Prazocin