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DHH-003-030402 Seat No. _____

M. Sc. Pharma. Organic Chemistry
(Sem. IV) (CBCS) Examination
May / June – 2015
POC - 402 : Medicinal Chemistry - II

Faculty Code : 003
Subject Code : 030402

Time : $2\frac{1}{2}$ Hours] [Total Marks : **70**

Instructions: 1. All Questions are compulsory & carries equal 14 marks
2. Draw suitable diagram / Scheme wherever necessary.

Q.1 Answer any **SEVEN** of the following ten questions. 14

1. What is H_2 antihistamine? Give Structure of Cimetidine.
2. What is Dissociative anesthesia? Give one example with structure.
3. Enlist different types of Epilepsy.
4. Differentiate minor and major Tranquilizer.
5. What is Co-Trimoxazole?
6. What are β-lactam antibiotics? Give its mechanism.
7. What are Mycoses? Enlist different type of Mycotic infection.
8. Give synthesis of Metronidazole.
9. What is HIV? Give the name of drugs used as Anti-HIV agents.
10. Give characteristics of Alzheimer's disease.

Q.2 Answer any **TWO** of the following three questions. 14

1. Explain Antidiarrheal agents with their properties.
2. Classify Sedative and Hypnotics (Soporific agents).
3. Explain Structure activity relationship of Penicillin. Give the synthesis of Penicillin G.

Q.3 Answer the following questions. 14

1. What is Tuberculosis? Classify antimycobacterial agents. Give synthesis of Pyrazinamide.
2. Explain the Classification of Antimalarial agents with mechanism and Give synthesis of Chloroquine.

OR

Q.3 Answer the following questions. 14

1. Explain classification of Anticonvulsant agents with mechanism.
2. Write a note on Antacid.

Q.4 Answer any **TWO** of the following three questions. 14

1. What are antidepressant drugs? Classify them with examples. Give synthesis of Imipramine.
2. Explain structure activity relationship of Quinoline in detail. Give synthesis of Pyrimethamine.
3. Explain Classification of Nonsteroidal anti-inflammatory agents in detail.

Q.5 Answer any **TWO** of the following four questions. 14

1. Explain mechanism of Sulphonamides. Give its Structure activity relationship.
2. Give synthesis of Chlordiazepoxide, Phenytoin and Carbamazepine.
3. Give clinical use, mechanism and synthesis of Ketoconazole and Albendazole.
4. What is Proton pump inhibitor? Explain Mechanism and synthesis of Omeprazole.