



**NBV-003-036402**    Seat No. \_\_\_\_\_  
**M. Sc. (Pharma. Organic Chemistry)**  
**(Sem. IV) (CBCS) Examination**  
**April / May - 2017**  
**POC-402 : Medicinal Chemistry - II**

**Faculty Code : 003**  
**Subject Code : 036402**

Time : 2½ Hours]

[Total Marks : 70

- Instructions :** (1) All Questions are compulsory and carries equal 14 marks.  
(2) Draw suitable diagram / Scheme wherever necessary.

- 1** Answer any seven of the following ten questions. **14**
1. Give the general mechanism of action of Laxatives.
  2. Define Sedative and Hypnotics.
  3. Give structure and use of Halothane.
  4. What are anthelmintics? Give any two examples with structure.
  5. What is chemotherapeutic agent? Enlist its mechanism of action.
  6. What is HIV? Give the name of drugs used as AntiHIV agents.
  7. Explain degradation of Penicillin.
  8. Give the different site of infection of Tuberculosis.
  9. Mention the clinical use of Sulphonamides.
  10. Differentiate Minor and Major Tranquilizer.
- 2** Answer any two of the following three questions. **14**
1. What is Proton pump inhibitor? Explain Mechanism and synthesis of Omeprazole.
  2. What is Laxatives? Explain them with its classification.
  3. Enlist different Tricyclic antidepressant agents used in Depression. Write its SAR in detail.

- 3** Answer the following questions. **14**
1. What are Local anesthetics? Classify them with its mechanism.
  2. Explain synthesis of Pyrazinamide, Lignocaine and Fluconazole.

**OR**

- 3** Answer the following questions : **14**
1. Explain SAR of Phenothiazine derivatives. Give synthesis of Chlorpromazine.
  2. Explain mechanism of Sulphonamides. Give its Structure activity relationship.
- 4** Answer any two of the following three questions. **14**
1. Classify Antimalarial agents with mechanism and explain structure activity relationship of Quinoline in detail.
  2. Define and classify antineoplastic agents in detail. Give the synthesis of Chlorambucil.
  3. Explain classification of Anti Viral agents with mechanism in detail.
- 5** Answer any two of the following four questions. **14**
1. Give classification of Antifungal agents with mechanism.
  2. Explain synthetic route of Phenytoin, Chloroquine and Fluorouracil.
  3. Classify Cephalosporins. Explain its structure activity relationship.
  4. Give synthesis of Penicillin G, Clotrimazole and Mebendazole.

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