Sl. No. Ef Question Paper: 2105 Unique Paper Code: 32173909 Name of the Paper SEC-9, Pharmaceutical Chemistry B.Sc. Chem./ Life Sci./ Phy. Sci./ Industrial Chem. / S. C. (Movs) Name of the Course Semester Ш Duration 02 hours Maximum Marks 37.5 Marks **Instructions for Candidates** Answer any three of these questions: Each question carries equal marks. 1. Do any five. (2.5×5) i) How can a drug be targeted to a specific organ? ii) What are the advantages and disadvantages of 'herbal medicine'? iii) Give method of preparation of Aspirin. iv) What are antibacterials? Give one example. v) Give structure of chloramphenicol. vi) What are antifungal agents? Give one example. vii) Describe fermentation process for synthesis of lysine. 2. i) What do you understand by 'screening' in drug development? What is its significance? (4) ii) What are analgesic agents? Give two examples. (4.5)iii) Complete the following: (4) NO_2

3, i) Give structure of Phenobarbital. Describe its use as drug.

ii) Give preparation of glyceryl trinitrate (GTN).

(3)

(3)

iii) a) What is fermentation? b) What is aerobic fermentation? c) Explain how fermentation can be used for industrial production of Vitamin B₁₂ or Vitamin C. (6.5)
i) Write short notes on any two of the following: (5,5)
a) Therapeutic index.
b) Retrosynthetic approach in drug development.
c) Discovery of penicillin.
ii) What do you understand by a 'drug'? (2.5)