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Roll No. Total No. of Pages: 02

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M.Sc. (Chemistry) PIT (2015 to 2017) (Sem.-4) MEDICINAL CHEMISTRY-II

Subject Code : CHL-512B Paper ID : [74899]

Time: 3 Hrs. Max. Marks: 70

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains SIX questions carrying FIVE marks each and students have to attempt ALL questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

- 1. Comment on penam based nomenclature of penicillin antibiotics.
- 2. What is the mechanism of action of Isoniazid?
- 3. Give structure of Pyrazinamide and its important uses.
- 4. What is the stereochemical relationship between quinine and quinidine?
- 5. Name and give the structures of two systemic amoebicides.
- 6. Give structure and mechanism of action of one imidazothiazole derivative which is used as Anthelmintics.
- 7. Give the structure of any one antibiotic that binds to 30s ribosomal unit and alter protein synthesis.
- 8. Give medicinal uses of Mefloqine.
- 9. Give the structures of two antifungal triazoles.
- 10. What are anthelmintics?

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SECTION-B

- 11. Describe the synthesis and mechanism of action of Chloramphenicol.
- 12. Give the SAR of Fluoroquinolines for the antibacterial activity.
- 13. What are systemic amoebicides? Give synthesis of metronidazole.
- 14. Write a short note on first line anti-TB drugs.
- Describe fatty acid and their derivatives used for dermatophytosis. 15.
- Give synthesis and mechanism of action of Clotrimazole. 16.

SECTION-C

- 17. Describe SAR of tetracycline antibiotics.
- 18. Describe structure of various azoles which are used in the treatment of fungal infections. Give synthesis of any one triazole from this category.
- WWW.FirstRank Give synthesis and mechanism of actions of Any Two: 19.
 - a. Pyrimethamine.
 - b. Thiabendazole.
 - c. Ciprofloxacine

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