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Total No. of Pages : 02

Total No. of Questions : 19

M.Sc (Chemistry) PIT (2015 to 2017) (Sem.-3)

MEDICINAL CHEMISTRY - I

Subject Code : CHL-503B

Paper ID : [74891]

Time : 3 Hrs.

Max. Marks : 70

INSTRUCTIONS TO CANDIDATES :

1. 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. Define term bioprecursor.
2. Draw structures and give names of two important hormones released from thyroid gland.
3. Draw structure of one fat soluble vitamin and give its one important biochemical function.
4. What are parasympathomimetics?
5. Draw structure and give chemical name of one β -adrenergic blocker which is used for the treatments of hypertension.
6. What are inotropic agents?
7. What are adjuvants of general anesthetics?
8. Define mineralocorticoid with one structural example.
9. What is parkinsonism?
10. Give two important limitations of insulin therapy as anti-diabetic treatment.

SECTION-B

11. Discuss the centrally acting anti-hypertensive agents.
12. Discuss SAR of benzoic acid ester derivatives for local anesthetic activity.
13. What are diuretics? Give synthesis and MOA of acetazolamide.
14. What are insulin sensitizers? Give synthesis of any one drug of this category which is used in the treatment of diabetes.
15. Name various reactions of Phase II drug metabolism. Describe any one with two examples.
16. Enumerate hydantoin class of anticonvulsants.

SECTION-C

17. Describe detail SAR of thyroid hormones. Give outline of synthesis of any one anti-thyroid drug.
18. What are secondary sex hormones? Give detail account of any one class of these hormones.
19. What are vitamins? Classify these on the basis of solubility. Describe the chemistry of Vit. D.