

#### Unit IV

No. of Printed Pages : 04

Roll No. ....

7. (a) Give the mechanism of hydrolysis of Asprine, why it is banned ?  
(b) Write down the structure of two macro cyclic compound and what is the mechanism of their drugs action ?**10,10**
8. (a) Write a note on Alkylating agent as anticancer drugs.  
(b) How metalloenzyme interfere in biological system ?  
(c) What kind of toxicity induced due to ligand therapy ? **12,4,4**

**DD-293**

**M. Sc. EXAMINATION, Dec. 2017**

(Fourth Semester)

(Re-appear Only)

CHEMISTRY

CH-606-B

Inorganic Medicinal Chemistry, Inorganic  
Special-IV

*Time : 3 Hours]*

*[Maximum Marks : 100*

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Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

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**Note :** Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

M-DD-293

4

30

(2-53/7) M-DD-293

P.T.O.

### Unit I

1. (a) What is bioamplification explain with suitable example ? Explain the effect of metal ions on this phenomena.  
(b) Give the interaction between orally administered drugs and metal ions in guts.  
(c) Write a note on chelating drugs containing sulpha hydra group, give at least two examples of it. **4,6,10**
2. (a) Explain the role of iron, copper and zinc in biochemical process, disease caused by their deficiencies and its remedies.  
(b) Give the interaction between orally administered drugs and metal ions in guts.  
(c) What is softness parameter  $\sigma_p$ , explain the theoretical basis of the relationship between toxicity and  $\sigma_p$ . **14,6**

### Unit II

3. Explain the following :  
(a) Mechanism of anticancer activity of platinum complexes  
(b) Polyethylene amine as chelating drugs. **10,10**

4. (a) What is Boron Neutron capture therapy, explain the principal of this therapy and different clinical agents used for this therapy ?  
(b) Give the mechanism of bacteriocidal activity of Labile as well as robust metal complexes. **10,10**

### Unit III

5. What is the theory behind process of luminescence ? How Rhodium show its effect with different derivatives ? **20**
6. (a) Write a note on Lithium drugs in psychiatry.  
(b) Explain the Disorder causes by the deficiencies  $\text{Na}^{2+}$  and  $\text{K}^{+}$  ions and how it can be recovered.  
(c) What is role of Fluoride in detail carries. **6,10,4**