

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 ? **10,4,6**

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Roll No. ....

**DD-293**

**M. Sc. EXAMINATION, May 2018**

(Fourth Semester)

(Main & Re-appear)

(CHEMISTRY)

CH606B

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.

### Unit I

1. (a) Explain the role of iron 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. **14,6**
2. Explain toxicity induced by heavy metals and their different methods for detoxification. **20**

### Unit II

3. Write notes on the following : **10,10**
  - (a) Anticancer activity of copper
  - (b) Activity of robust and labile metal complexes.
4. (a) Give reaction of thiourea to explain trans effect, why trans complex of platinum are not much effective for antitumor activity.  
(b) What is the basic principle of boron neutron therapy ?

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- (c) Explain a note on polyetheneamines as chelating drugs.
- (d) Explain the antiviral activity of metal complexes. **4,4,6,6**

### Unit III

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

### Unit IV

7. (a) Give the mechanism of hydrolysis of Asprine. Why is it banned ?  
(b) Write down the structure of two macro cyclic compound and what is the mechanism of their drugs action ? **10×2**

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P.T.O.