

Roll No.

42007

**M. Sc. Chemistry 4th Semester
Examination – May, 2019**

INORGANIC SPECIAL-VI

Paper : CY(H)-403(a)4287

Time : Three hours]

[Maximum Marks : 80

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

Note : Attempt *five* questions in all, selecting *one* question from each Section. Question No. 1 is *compulsory*.
All questions carry equal marks.

1. Answer the following in short : $2 \times 8 = 16$

(a) Name some of the carcinostatic ligands.

(b) How do you cure hypo- activity of thyroids ?

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- (c) What are the diseases that appear due to deficiency of the Copper ?
- (d) Name some metal complexes which are used as antiviral drugs.
- (e) What do you mean by biomineralisation ?
- (f) What do you mean by macrocyclic antibiotic ligands ?
- (g) Explain the radioiodine-131.
- (h) What are the applications of Indium scan ?

SECTION – A

- 2. (a) What are the symptoms and diseases that arises due to Zinc deficiency and how this deficiency is recovered in human beings ? 8
- (b) Discuss the mechanism of anticancer activity of gold complexes. 8

3. (a) Discuss the mechanism of anticancer activity of CuKTS complexes.
- (b) Write a note on Rhodium complexes as carcinostatic agent ?

SECTION – B

4. (a) Discuss the mechanism of anticancer activity of selenium with its essentiality in living system.
- (b) Discuss the clinical disorder regarding the alkali and alkaline earth metals and their remedies.
5. (a) What are the problems regarding the thyroid gland and how we can cure them ?
- (b) Write a note on drugs applied for the dental caries, <https://www.haryanapapers.com>

SECTION – C

6. (a) How heterocyclic thiosemicarbozones show carcinostatic activity, explain ?

- (b) How we can explain the probable mechanism of macrocyclic antibiotics ? 8
- (a) How the ligands interfere with hemoglobin in the oxygen transport system. 8
- (b) What do you mean by ligand induced toxicity ?
How it works in the beneficial form ? 8

SECTION - D

- (a) Discuss the diseases that arises due to deficiency of vitamin-D and how they can be cured ? 10
- (b) Explain the nuclear medicine and gallium scan. 6
- (a) What are antioxidant and discuss their harmful effects ? 8
- (b) Write a brief note on radio pharmacology and Tc-99m 8