

(b) How we can explain the probable mechanism of

macrocyclic antibiotics ?

8

42007

- (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

**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.

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

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 ?

P. T. O.

(4)

- (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 biominerallisation ?
- (f) What do you mean by macrocytic antibiotic ligands ?
- (g) Explain the radioiodine-131.
- (h) What are the applications of Indium scan ?

SECTION – A

- 3.** (a) Discuss the mechanism of anticancer activity of CuKTS complexes.
- (b) Write a note on Rhodium complexes 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.
- SECTION – C**
- 6.** (a) How heterocyclic thiosemicarbazones shown carcinostatic activity, explain ?