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**DE—09—2018**

**FACULTY OF PHARMACEUTICAL SCIENCES AND TECHNOLOGY**

**(Pharm. D.) (First Year) EXAMINATION**

**MAY/JUNE, 2018**

**PHARMACEUTICAL INORGANIC CHEMISTRY**

**(Wednesday, 2-5-2018)**

**Time : 10.00 a.m. to 1.00 p.m.**

*Time—3 Hours*

*Maximum Marks—70*

*N.B. :— (i) All questions are compulsory.*

*(ii) Figures to the right indicate full marks.*

*(iii) Answer to the point only.*

*(iv) Illustrate your answer with neat sketches wherever necessary.*

1. Solve any *five* of the following : 10

(a) Give uses of the following radioisotopes :

(i)  $\text{CO}^{57}$

(ii)  $\text{Fe}^{59}$ .

(b) Define antidote.

(c) What do you mean by precision and accuracy ?

(d) Give detail requirements of volumetric analysis.

(e) Write preparation method of nitrous oxide.

(f) What is achlorhydria ?

(g) Which indicators are used in complexometric titrations ?

2. Solve any *two* of the following : 12

(a) Describe combination therapy of electrolyte infusions.

(b) Write method of preparation, properties and uses of magnesium sulphate.

(c) Describe various types of indicators used in acid-base titrations.

P.T.O.

3. Solve any *two* of the followings : 12
- (a) Write characteristics of an ideal antacid.
  - (b) Write principle, reaction and applications of limit test for chloride.
  - (c) Describe in detail about masking and demasking agents.
4. Solve any *two* of the following : 12
- (a) What are Radio-opaque substance ? Give method of preparation and properties of barium sulphate.
  - (b) Give method of preparation, properties and uses of ammonium chloride.
  - (c) Give factors affecting iodometric titrations.
5. Solve any *two* of the following : 12
- (a) Write method of preparation, properties and uses of sodium fluoride.
  - (b) Define colourants and give its classification.
  - (c) Write types of non-aqueous solvents.
6. Solve any *two* of the following : 12
- (a) Discuss various mechanisms of action of inorganic antimicrobial agents.
  - (b) Describe Mohr's method.
  - (c) Give method of preparation, properties and uses of ferrous gluconate.