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CL—13—2019

FACULTY OF SCIENCE AND TECHNOLOGY

Pharm. D. (First Year) EXAMINATION

APRIL/MAY, 2019

PHARMACEUTICAL INORGANIC CHEMISTRY

(Thursday, 2-5-2019)

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

Time— Three Hours

Maximum Marks—70

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

(ii) Answer to the point only.

(iii) Figures to the right indicate full marks.

1. Solve any *five* of the following : 5×2=10

- (a) Write characteristics of random error.
- (b) Differentiate between iodometry and iodimetry.
- (c) Name *two* examples of fluorescent indicators.
- (d) Write disadvantages of gravimetric analysis.
- (e) Why is nitric acid used in limit test of chloride ?
- (f) Give classification of acidifiers.

2. Solve any *two* of the following : 2×6=12

- (a) Define secondary standards. Give the requirements of primary standards with suitable example.
- (b) Explain in detail the following aqueous acid-base titrations with graphs.
 - (i) Strong acid with strong base,
 - (ii) Weak acid with strong base.
- (c) Classify solvents used in non-aqueous titration and give examples.

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3. Solve any *two* of the following : 2×6=12
- (a) Describe in detail about Fajan's method.
 - (b) What are types of EDTA titration ? Give procedure for standardization of EDTA.
 - (c) Write principle and method for limit test of lead.
4. Solve any *two* of the following : 2×6=12
- (a) Write ideal properties of antacids.
 - (b) Define cathartics. Write method of preparation and uses of magnesium sulphate.
 - (c) Discuss biological role and uses of copper in human body.
5. Solve any *two* of the following : 2×6=12
- (a) Describe physiological acid-base balance.
 - (b) Write method of preparation, physical properties and uses of potassium permanganate.
 - (c) Discuss ideal properties of excipients used in medicaments.
6. Solve any *two* of the following : 2×6=12
- (a) What is dental caries ? Write method of preparation and pharmaceutical uses of sodium fluoride.
 - (b) Define haematinics. Give biological importance of iron.
 - (c) Write applications of radioisotopes in medicines.