Sub Code:RPH101

Paper Id: 150111 Roll No:

B. PHARM

(SEM-I) THEORY EXAMINATION 2019-20

PHARMACEUTICAL CHEMISTRY-I (PHARMACEUTICAL INORGANIC CHEMISTRY**)**

Time: 3 Hours ***Total Marks: 70***

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. 7 x 2 = 14

a.	What is the role of ammonia and citric acid in the limit test of iron?
b.	How anti-caries agents act?
c.	Why combination antacids are required?
d.	Compare light and heavy magnesium carbonate.
e.	Give the example of combination therapy for electrolyte replacement.
f.	Enumerate the units of radioactivity.
g.	Who proposed the co-ordination theory? How many valence a metal ion possesses?

SECTION B

2. Attempt any *three* of the following: 7 x 3 = 21

a.	Discuss the apparatus used for limit test of Arsenic. What reactions are involved?
b.	How antimicrobials act? Give method of preparation, identification tests for boric acid and silver nitrate.
c.	How cathartics act? Give method of preparation, identification tests for calcium carbonate and magnesium sulphate.
d.	Justify the use of electrolyte for replacement therapy. Give method of preparation, identification tests for sodium chloride and calcium gluconate.
e.	Write note on- (i) Pharmaceutical importance of chelates (ii) Poison antidote

SECTION C

3. Attempt any *one* part of the following: 7 x 1 = 7

(a)	Describe the types and sources of impurities in detail.
(b)	Write note on- (i) Pharmaceutical glasses (ii) Inhalants

4. Attempt any *one* part of the following: 7 x 1 = 7

(a)	What are dentifrices? Give method of preparation, identification tests for dicalcium phosphate and alum.
(b)	What are anti-oxidants? How do they act? Give method of preparation and identification tests for sodium metabisulfite.

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5. Attempt any *one* part of the following: 7 x 1 = 7

(a)	Write note on- (i) Expectorants (ii) Protective and adsorbents
(b)	Write note on- (i) Respiratory stimulants (ii) Uses of aluminum hydroxide, bismuth subcarbonate, disodium hydrogen phosphate and potassium iodide

6. Attempt any *one* part of the following: 7 x 1 = 7

(a)	What do you mean by Haematinics? Give method of preparation, identification tests for ferrous sulphate and ferric ammonium citrate. (2+2.5+2.5)
(b)	Discuss the role of Cu, Zn, Cr, Mn.

7. Attempt any *one* part of the following: 7 x 1 = 7

(a)	Explain in detail the measurement of radioactivity.
(b)	What hazards are associated with radiopharmaceuticals? Enlist the precautions during the handling of radiopharmaceuticals.

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