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FIRST YEAR PHARMACY

PHARMACEUTICAL CHEMISTRY - I

(102)

Time : Three Hours ***Maximum Marks : 80***

Note : Attempt total *six* questions. Question No.**1** is compulsory. From the remaining questions attempt any *five*.

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1. Attempt all of the following: 10
   a) Define the following with examples
      i) Antioxidants
      ii) Respiratory stimulants .
   b) Write the names of 4 radioisotopes with their specific uses.
   c) Classify topical agents
   d) Enlist the official compounds of calcium as per I.P. 1996.
   e) Define the astringents with examples.

2. Attempt any four of the following. 14
   a) What do you understand by physio-logical acid-base balance?

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b) What do you understand by electrolytes replacement therapy? Write the names of electrolytes used for replacement therapy.

c) Write the formula of O.R.S.

d) Write the uses of following compounds potassium acetate and ammonium chloride.

e) Write the physico-chemical properties and uses of electrolytes used for replacement therapy.

3. Attempt any <u>four</u> of the following. 14

a) Enlist the official compounds of Iron as per I.P. 1996. Write the preparation and properties of $FeSO_4$.

b) Write the properties and uses of Iodine.

c) Write the preparation, properties and uses of calcium Gluconate.

d) Enlist the official compounds of Iodine. Write the properties and uses of KI.

e) Write the importance of quality control in pharmaceuticals.

4. Attempt any <u>four</u> of the following : 14

a) What do you understand by BARIUM meal.

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b) What are the storage conditions of radio pharmaceuticals.

c) Write a short note on measurement of radio activity.

d) What are the biological effects of radiations.

e) Define and classify G.I.T. agents.

5. Attempt any <u>four</u> of the following. 14

a) Write only the procedure for the limit test for arsenic.

b) Write only the principle for the limit test of chloride and sulphate.

c) Write the principle and procedure for the limit of Iron.

d) What are the sources of impurities in pharmaceutical compounds.

e) Write the principle and procedure for the limit test of lead.

6. Attempt any <u>four</u> of the following. 14

a) Write the physico-chemical properties and uses of zinc sulphate.

b) Write the physico-chemical properties and uses of Calamine.

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c) Write the physico-chemical properties and uses of sodium fluoride and zinc chloride.

d) Write the storage conditions of Nitrogen and Nitrous oxide.

e) Write the uses of Dicalcium phosphate and Strontium chloride.

7. Attempt any four of the following. 14

a) Write the identification test of calcium and chloride.

b) Write the physico-chemical properties and uses of Aluminium Hydroxide.

c) Write the uses of sodium bisulphite and sulphur dioxide.

d) Write the physico-chemical properties and uses of silver nitrate.

e) Write the physico-chemical properties and uses of oxygen and carbon dioxide.

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