22223
3 Hours / 80 Marks

0806

Seat No. | | | | | | | | |

Instructions – (1) All Questions are *Compulsory.*
(2) Answer each next main Question on a new page.
(3) Illustrate your answers with neat sketches wherever necessary.
(4) Figures to the right indicate full marks.
(5) Assume suitable data, if necessary.
(6) Use of Non-programmable Electronic Pocket Calculator is permissible.
(7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any FIVE of the following: **20**

a) Define acid and base as per Arrhenious theory and write Advantages and disadvantages of it.
b) Define and classify Antacids with examples.
c) State the meaning of 'Quality Control'. Give its significance in Pharmacy.
d) Define Topical agents and classify with examples.
e) Discuss uses and storage condition for
   i) Oxygen ii) Carbondioxide
f) Define Antioxidants with examples. Write selection criteria for inorganic Antioxidants.
g) Define and classify Dental Products with examples.
h) Write synonym, chemical formula, properties and uses of Muriatic acid.

2. Attempt any FOUR of the following: **12**

a) Define and classify Laxatives with examples.
b) Discuss the role of oxygen in biological system.
c) Explain Electrolyte replacement therapy. Give official preparations of sodium chloride.
d) Give the properties of alpha and beta radiations.
e) Mention four official preparations of
   i) Calcium ii) Iron
f) Write principle and reaction involved in limit test for iron.

3. Attempt any THREE of the following: **12**

a) Explain the biological effects of raditions on human body.
b) Give the synonym and use of
   i) Sodium Hydroxide ii) Calcium Hydroxide
c) Define Antidote and classify with suitable examples.
d) State the precautions to be taken while handling and storage of Radio pharmaceuticals.
e) Write properties and uses of
   i) Kaolin ii) Calamine

P.T.O.

Marks

4. Attempt any THREE of the following: **12**

a) State synonym, molecular formula, properties and uses of sodium metabisulphite.

b) Define Respiratory Stimulants. Given molecular formula, properties and uses of Ammonium carbonate.

c) Define Expectorants and Classify them. Give uses of potassium iodide.

d) What are Anticaires agents? Discuss the role of fluoride as anticaries.

e) Enlist different sources of impurities in pharmaceuticals. Explain any two.

5. Attempt any THREE of the following: **12**

a) Define the terms with examples.

i) Achlorhydria

ii) Astringent

iii) Protectives

iv) Emetics

b) What is 'Shadow meal'? Give its properties, uses and molecular formula.

c) Define the term 'Radioisotope'. Draw well labelled diagram of G.M. counter and explain construction and working.

d) Define buffers and classify buffers. Give ideal properties of it.

e) Draw well labelled diagram of Gutzeit apparatus and explain the principle of limit test for Arsenic.

6. Attempt any THREE of the following: **12**

a) Give any two identification tests for

i) Acetates

ii) Chlorides

b) Explain metabolic acidosis and metabolic alkalosis. Give name of compounds used for their treatment.

c) Explain various applications of Radioisotoper.

d) What are ORS mixtures? Give it's composition recommended by WHO and UNICEF.

e) Explain the role of iron in human body.

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