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ODISHA STATE BOARD OF PHARMACY

D. Pharm Part (I)

E. R. 2020

27/01/2023 2022(I)

DO NOT WRITE ANYTHING ON YOUR QUESTION PAPER EXCEPT YOUR ROLL NO. QUESTION PAPER CONTAINING ANYTHING WOULD BE TREATED AS MALPRACTICE

PHARMACEUTICAL CHEMISTRY

Full Mark -80

1. Answer any six .

Time -3 hrs

[10x03=30]

[6x05=30]

a) Define Acid-Base Indicators & describe in details about the indicator theory with suitable Examples?

- b) Describe the principles involved, procedure & application of Mohr's Method?
- Mention the chemical structure, chemical name, uses and brand names of followings –

 Glibenclamide
 Chloroquine Phosphate.
- d) What is quality control? Describe the importance of quality control?
- e) Write the detail about chemistry of aluminium hydroxide gel?
- f) Classify anti-neoplastic agents with suitable examples. Write the structure, chemical name, popular brand name of Cyclophosphamide and Fluorouracil.
- g) Classify nonsteroidal anti-inflammatory agents (NSAIDs). Write the structure, chemical name and popular brand name of i) Ibuprofen
 ii) Paracetamol

2. Answer any ten questions.

- a) Write a short note on Mouth Washes?
- b) Define Dental Fluorosis and Briefly discuss the role of Fluorides as an anti-caries agent?
- c) Define Haematinics, mention some official compounds and discuss the role of ferrous fumarate as an ideal compound?
- d) Define Sedative & Hypnotics. Mention the Chemical Structure & Chemical Name of Diazepam and Phenobarbital
- e) Write about the uses, storage & incompatibility of light kaolin?
- f) Write the structure of Metformin, Verapamil and Alprazolam?
- g) How raw materials contribute impurities to the finished product. Explain.
- h) What are the advantages of BaSo4 reagent over BaCl2 in the limit test for sulphate.
- i) Write the principle of limit test for chloride.
- j) Write a note on DOT therapy in tuberculosis.
- k) What are anti-hypertensive agents? Write the structure and chemical name of Propranolol.

3.Answer all questions in the following sections. Each carries ONE mark [20x1=20]

A) Define the followings:

i) Normality ii) Conjugate Acid and Conjugate Base with Suitable Examples iii) Hemosiderosis

iv) Oxidant and Reductant with examples v) Cathartics vi)Astringent vii) Complexometric Titration

viii) Impurity ix) Self indicator with example x) Antidepressant

B) Write the chemical formula & Uses of followings

i) Dapsone ii) Magaldrate iii) Potassium Permanganate iv) Bleaching powder v) Green Vitriol

C) Write down the structure & numbering.

i) Purine ii) Phenothiazine iii) Imidazole iv) Pyrimidine v) Indole

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