

ODISHA STATE BOARD OF PHARMACY

27/01/2023

D. Pharm Part - I

E.R. 1991

2022(I)

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

Subject: PHARMACEUTICAL CHEMISTRY- I (Theory)

Full Mark -80

Time -3 hrs

(Answer any five questions including question No. 1)

- Q1. (A) Write the chemical formula & uses of the following. [5X2]
(i) Alum (ii) Bleaching Powder (iii) Epsom Salt (iv) Caustic Soda (v) Green Vitriol
- (B) Define the following terms: [5X2]
(i) Astringent & Deodorant (ii) Molarity & Normality (iii) Electrolytes & ORS
(iv) Bacteriostatic & Bactericidal (v) Hygroscopic & Deliquescent
- Q2. Short notes on (Any Three) [5x3]
i) Cyanide Poisoning ii) Stages of General Anaesthesia iii) Radioisotopes iv) Primary Standard
- Q3. Write short notes on (Any Three) [5x3]
(i) Dental Products (ii) Geiger-Muller counter (iii) Saline cathartics
(iv) Combination of Antacids
- Q4. (a) Give Properties, Uses & Storage condition of the following compounds: [2x3.5]
(i) Hydrogen peroxide (ii) Sodium thiosulphate
- (b) Write short notes on Anticaries Agent. [4]
- (c) Explain only the principle of limit test for Iron [4]
- Q5. (a) Define Antidote. Classify them with examples. Write Physical & Chemical properties & uses of Sodium Thiosulphate [1+2+4^{1/2}]
- (b) What are antioxidants? Write Physical & Chemical character & uses of Sodium Bisulphite, [7^{1/2}]
- Q6. (a) Define limit test. Write down the principle, procedure & apparatus used in the limit test for Arsenic: [7^{1/2}]
- (b) Enumerate the method of preparation, physical & chemical properties & uses of Iodine. Briefly describe about different preparations of Iodine. [4^{1/2}+3]
- Q7. (a) Explain Bronsted-Lowry & Lewi's Acid – Base Theory. [3+3]
- (b) What do you mean by Buffer Solutions & Buffer Capacity & Write a note on application of Buffers in Pharmacy. [5]
- (c) Describe about tests for purity. [4]
