

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Pharmacy First Year Examination June 2009

Subject code: 410002

Subject Name: Pharmaceutical Chemistry -I

Date: 23-06-2009

Time: 11:30am-2:30pm

Total Marks: 80

Instructions:

1. Attempt any five questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Q.1

- (a) Write in brief about sources of impurities in Pharmaceuticals. **08**
(b) Why buffers are used in Pharmacy ? How they act ? Give their mechanism of action. **08**

Q.2

- (a) Give principle and procedure for the limit test of Iron. **08**
(b) What are antidotes? Give their mechanism of action. **04**
(c) Write short notes about respiratory stimulants. **04**

Q.3

- (a) Name different intracellular and extra cellular electrolytes. Give functions of Sodium and bicarbonate ions. **06**
(b) What is Geiger Muller counter ? How radioactivity is measured by it. **06**
(c) Write short notes on ORS. **04**

Q.4

- (a) What are antimicrobials ? Give properties, uses and storage conditions of : (1) Hydrogen peroxide (2) Pot. Permanganate. **08**
(b) Why expectorants are used ? Give details about Pot. iodide. **04**
(c) What are radioopaque contrast media ? Explain. **04**

Q.5

- (a) Define the following terms : (1) Astringent (2) Hygroscopic (3) Deliquescent (4) Limit test (5) Haematinic (6) Deodorant. **06**
(b) What are antacids ? Give ideal properties of antacids. **05**
(c) Why antioxidants are used in Pharmacy ? Give their mechanism of action. **05**

Q. 6

- (a) Give properties, uses and storage condition of the following compounds : (1) Sodium thiosulphate (2) Calcium carbonate. **08**
(b) Write short notes on Anticaries agents. **04**
(c) Explain limit test of chloride. **04**

Q.7

- (a) Give biological importance of Iron. **05**
(b) Write short notes on Protective and adsorbents. **06**
(c) Give principle of limit test of Arsenic. **05**
