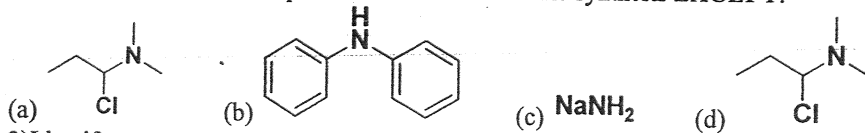


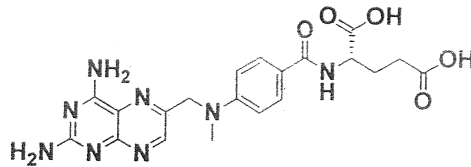
PARUL UNIVERSITY**PARUL INSTITUTE OF PHARMACY AND RESEARCH****B.PHARM V SEMESTER FIRST THEORY INTERNAL EXAMINATION: 2022-23**Subject Name: **MEDICINAL CHEMISTRY-II**Subject Code: **BP501T**Time: **07.45 AM TO 09.00AM**Date: **18/07/2022**Total Marks: **30**

Instructions:

1. Make suitable assumptions wherever necessary.
2. Figures to the right indicate maximum marks.

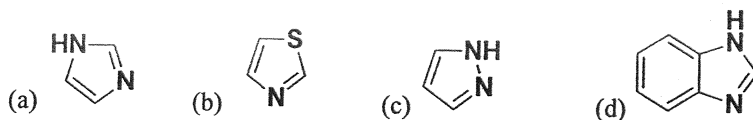
A**Q.1 Multiple Choice Questions. (10 X 1=10)****10**1) All following are the requirement of Promethazine synthesis **EXCEPT**:

2) Identify structure name:



- (a) Trimetrexate (b) 6-mercaptopurine (c) 6-thioguanine (d) None of the above

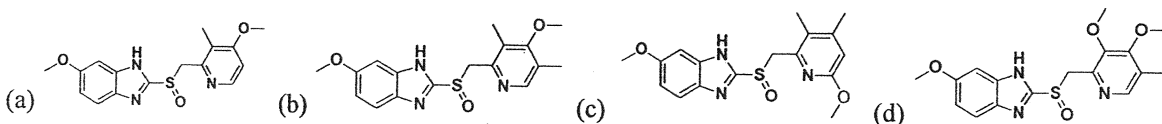
3) Basic heterocyclic ring present in Histamine :



4) Thyroxin hormone is biosynthesized from _____ amino acid.

- (a) Tyrosine (b) Phenylalanine (c) L-Serine (d) Tryptophan

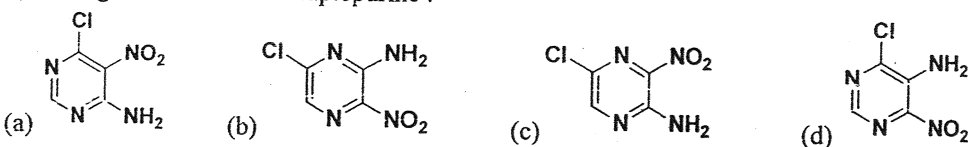
5) Identify correct structure of Omeprazole :



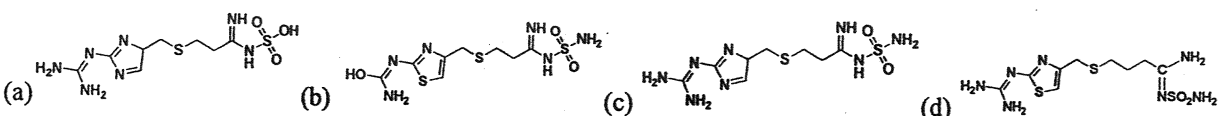
6) The drug which contain phenothiazine nucleus :

- (a) Chlorpromazine (b) Promethazine (c) Both a & b (d) None of the above

7) Starting material of 6-mercaptopurine :



8) Identify correct structure of Famotidine :

9) All are the structural requirement of Proton pump inhibitors **EXCEPT**:

- (a) Benzimidazole ring (b) Pyridine ring (c) Pyrimidine ring (d) Sulfoxide

10) Which position of guanine is more susceptible for alkylating agent?

- (a) N4 (b) N5 (c) N6 (d) N7

Roll No.: _____

Enrolment No. _____

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Time: 07.45AM TO 09.00AM

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Q.2 Attempt any 01 out of 02 questions. (1 X 10 =10)

10

- A) Classify anti-histaminic agents (H1) with all examples with synthesis and MOA of **Diphenhydramine**.
B) Classify Antineoplastic agents with all examples and write down the synthesis & MOA of **Methotrexate**.

Q.3 Attempt any 02 out of 03 questions. (2 X 5=10)

10

- A) Describe the synthesis of **Mechlorethamine** and **Tripolidine**
B) Describe the biosynthesis of thyroid hormone with structure of anti-thyroid drugs
C) Discuss SAR of Antihistaminic agents (both H1 & H2).
