

PARUL UNIVERSITY**PARUL INSTITUTE OF PHARMACY AND RESEARCH****B.PHARMA V SEMESTER SECOND THEORY INTERNAL EXAMINATION: 2022-23****Subject Name: MEDICINAL CHEMISTRY-I****Subject Code: BP501T****Time: 07.45AM TO 09.00AM****Date: 07/09/2022****Total Marks: 30****Instructions:**

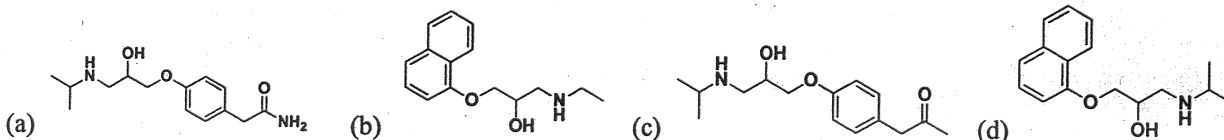
1. Make suitable assumptions wherever necessary.
2. Figures to the right indicate maximum marks.

Q.1 Multiple Choice Questions. (10 X 1=10)**10**

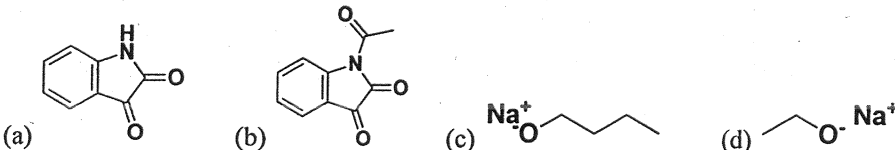
1) Which of the following is thiol group containing ACE inhibitor:

- (a) Lisinopril (b) Fosinopril (c) Captopril (d) Ramipril

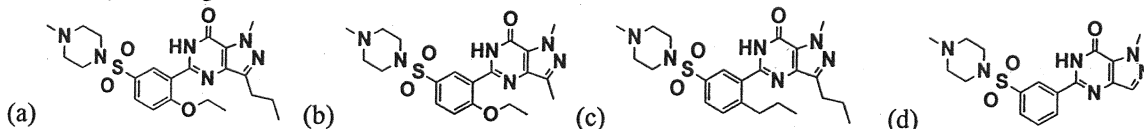
2) Identify drug Atenolol:



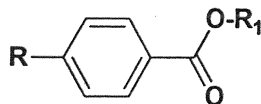
3) All are related with the synthesis of dibucaine EXCEPT:



4) Identify the drug structure which releases Nitric oxide:

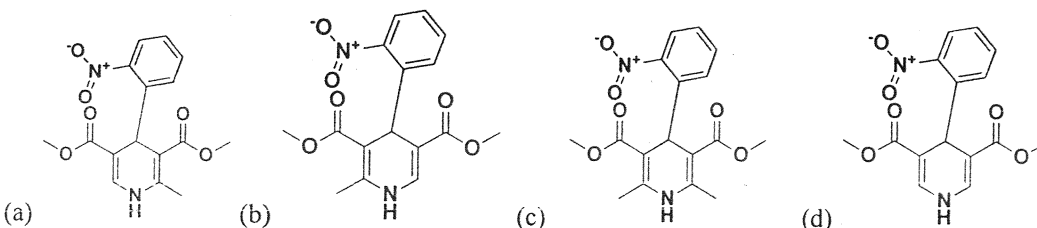


5) In the following structure activity will enhance when oxygen is substituted with following substituent EXCEPT:

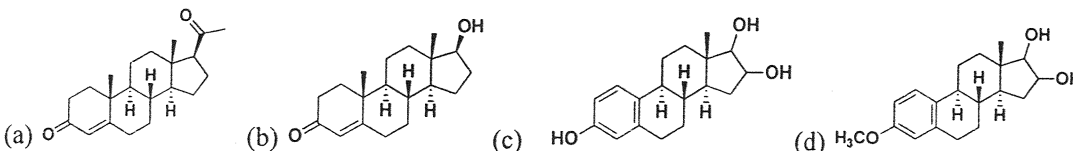


- (a) Alkoxy (b) Amino (c) Alkylamino (d) Nitro

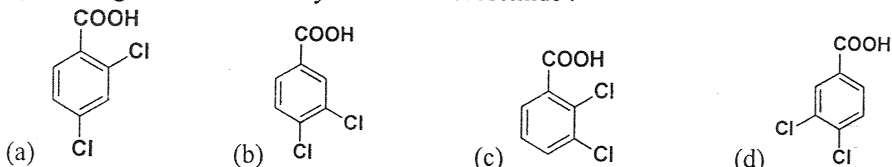
6) Structure of Nifedipine is :



7) Precursor of aldosterone is:



8) Starting material for the synthesis of Furosemide :



9) All are the chemical category of Calcium channels blockers EXCEPT:

- (a) Phenylalkylamine (b) Benzothiazepines (c) Dihydropyridines (d) Benzodiazepines

10) Ions channels that are related with Sulfonylureas mechanism :

- (a) Na
- ⁺
- , K
- ⁺
- (b) K
- ⁺
- , Ca
- ²⁺
- (c) Na
- ⁺
- , Ca
- ²⁺
- (d) Na
- ⁺
- , Ca
- ²⁺
- , K
- ⁺

Roll No.: _____

Enrolment No. _____

PARUL INSTITUTE OF PHARMACY AND RESEARCH

B.PHARMA V SEMESTER SECOND THEORY INTERNAL EXAMINATION: 2022-23

Subject Name: MEDICINAL CHEMISTRY-I

Subject Code: BP501T

Time: 07.45AM TO 09.00AM

Date: 07/09/2022

Total Marks: 20

Instructions:

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

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

10

A) Classify Local anesthetic with all examples. Write synthesis and MOA of Procaine & Benzocaine.

B) Classify Diuretics with all examples. Write SAR and synthesis of Chlorthiazide.

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

10

A) Classify Steroids with all structures

B) Classify Anti diabetic agents with the synthesis of Tolbutamide.

C) Classify Anti-hypertensive agents with MOA of ACE inhibitors
