Roll No.: _____ Enrolment No._____

PARUL UNIVERSITY

PARUL INSTITUTE OF PHARMACY AND RESEARCH

B.PHARMA III SEMESTER THEORY INTERNAL EXAMINATION: 2021-22

Subject Name: Pharmaceutical Organic Chemistry-II

Subject Code: BP301T **Date: 26/08/2021**

Time: 2.00 PM TO 3.15PM **Total Marks: 30**

Instructions:

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

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

1). Naphthalene undergoes oxidation with Na2Cr2O7/H2SO4 to form.

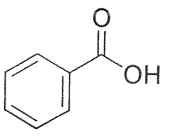
(a) Phthalic acid (b) Benzoic acid (c) Tetralin (d) Phenyl acetic acid

2) Coulson- Moffitt model explains the following

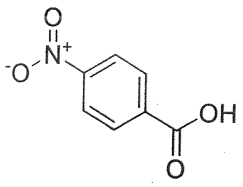
(a) Angle strain in cycloalkane (b) Geometry of angle in cycloalkane

(c) Same angle strain than of cycloalkane and cyclobutane (d) All of the above

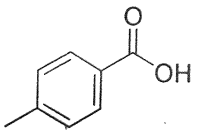
3). The correct increasing order of acidity for the following compound is :



(I)



(II)



(III)

(a) I > II > III
(b) III > II > I
(c) II > I > III
(d) I > III > II

4). Wij's method includes

(a) Iodine monochloride (b) CCl4 reagent (c) KI (d) Sodium thiosulphate

5). Electrophilic substitution reaction in anthracene occurs at?

(a) C6 Or C7 (b) C1Or C2 (c) C9 Or C10 (d) All of the above

6). Pick out the wrong statement. Iodine value of an oil or fat is

(a) A measure of its unsaturation (b) the number of grams of iodine taken up to 100 gm of oil or fat

(c) independent of the type of oil, whether it is drying or non-drying (d)Helpful finding its adulteration

7). Molecular formula of anthracene is:

(a) C12H14 (b)C10H14 (c) C14H14 (d) C14H10

8). All are the examples of mono aromatic acid compounds **EXCEPT :**

(a) Salicylic acid (b) Benzoic acid (c) Anthranilic acid (d) Phthalic acid

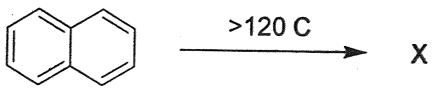
9). Identify the incorrect statement regarding cycloalkanes.

a) These have sp3 hybridized carbons b) These have tetrahedral bond angles

c) Stability of the cycloalkanes varies directly with their respective size

d) These undergo nucleophilic substitution reactions

10). In following reaction identify **X:**



(a) Naphthalene 1 sulfonic acid
(b) Naphthalene 2 Sulfonic acid
(c) Both
(d) Naphthalene 1,2 disulfonic acid

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

A) Explain Baeyers strain theory and sachse mohr's theory.

B). Give reactions of naphthalene and explain any two derivatives.

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

A) Explain effects of substituents on acidity.

B) Write a note on Iodine value.

C) Define RM value. Explain Haworth synthesis.

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