

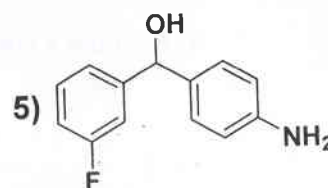
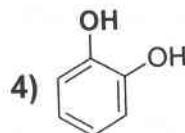
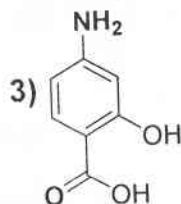
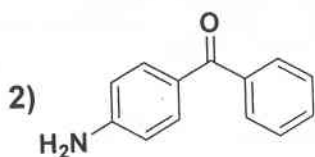
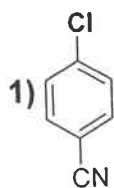


((Final exam of the second semester))

45

Academic year 2016 -2017

Q3: Use benzene and any inorganic reagent to prepare **FOUR** of the following compounds:



(14 Marks)

Q4: Give the chemical structure of **FIVE** of the following compounds:

1) Toluene

2) Phenanthrene

3) Benzyl chloride

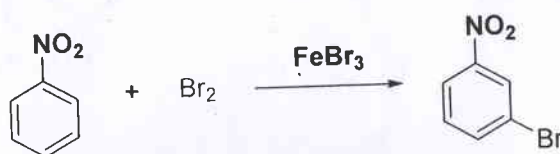
4) Thiophene

5) Aniline

6) Salicylic acid

(5 Marks)

Q5: Give the mechanism of the following reaction:



(5 Marks)

Good Luck