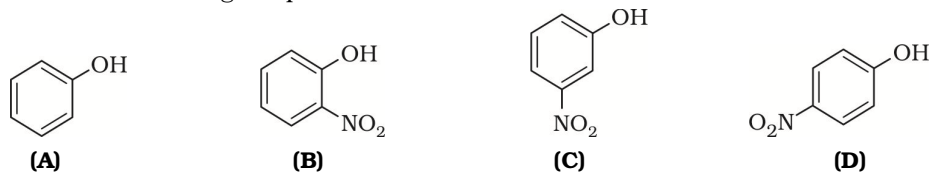
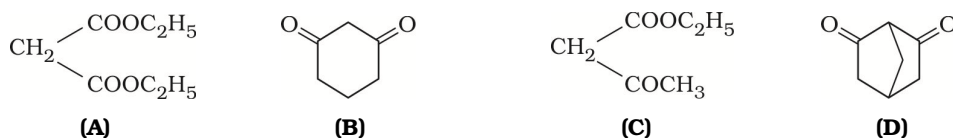


Date Planned : __ / __ / __	Daily Tutorial Sheet-6	Expected Duration : 90 Min
Actual Date of Attempt : __ / __ / __	Level-2	Exact Duration : _____

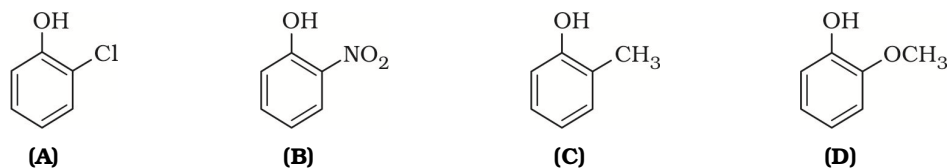
76. Which of the following compounds is most acidic?



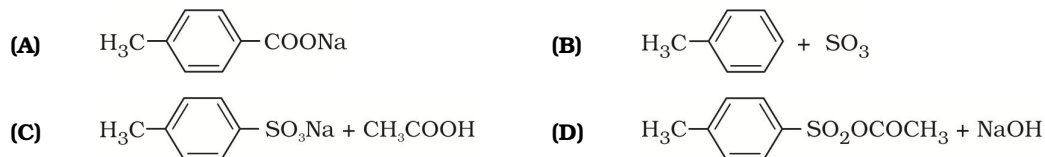
77. Which one of the following compounds would you expect to be the strongest carbon acid?



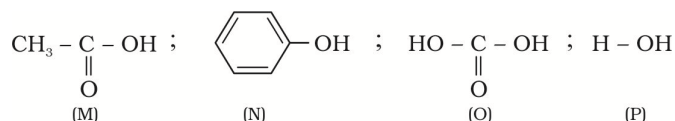
78. Which of the following compounds has the highest pK_a value?



79. Which of the following is obtained when 4-Methylbenzenesulphonic acid is treated with excess of sodium acetate?



80. Which of the following is correct order of acidic strength of given compounds?



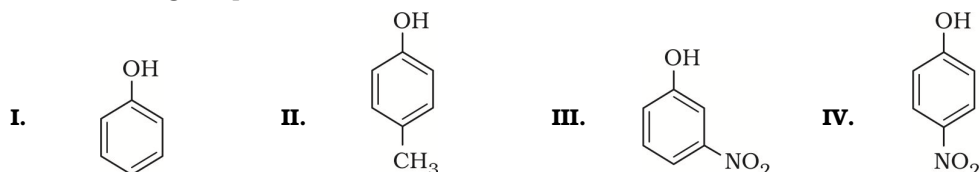
- (A)** (M) > (O) > (N) > (P)

(C) (M) > (N) > (O) > (P)

(B) (O) > (M) > (N) > (P)

(D) (N) > (M) > (O) > (P)

81. In the following compounds



The order of acidity is:

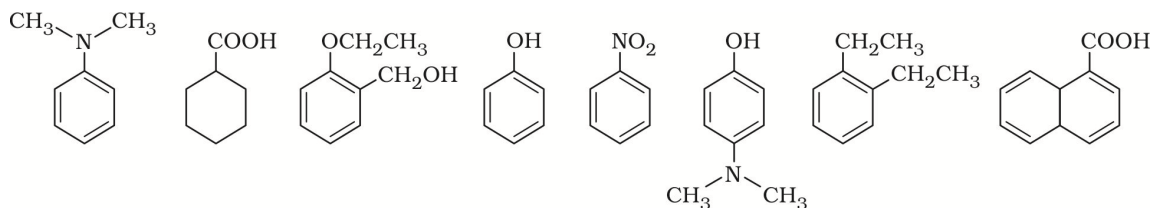
- (A)** III > IV > I > II

(C) II > I > III > IV

(B) I > IV > III > II

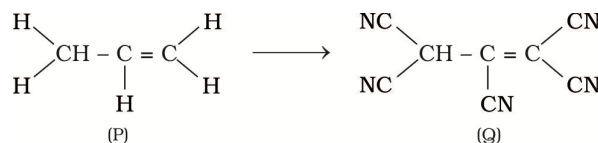
(D) IV > III > I > II

82. Amongst the following, the total number of compounds soluble in aqueous NaOH is:



(A) 4 (B) 5 (C) 6 (D) 8

83. Replacement of most of the hydrogen of an alkene (P) by cyano groups forms a very strong acid (Q) as shown below. The sharp increase in acidity on going from (P) to (Q) is best explained as:



- (A) Electron withdrawing inductive effect of nitrogen
(B) Extensive delocalization of the negative charge of the conjugate base resulting from the ionization of (Q)
(C) Combined electron withdrawing inductive effect and resonance effect of cyano groups.
(D) The acidic hydrogen being positioned alpha to the cyano group.

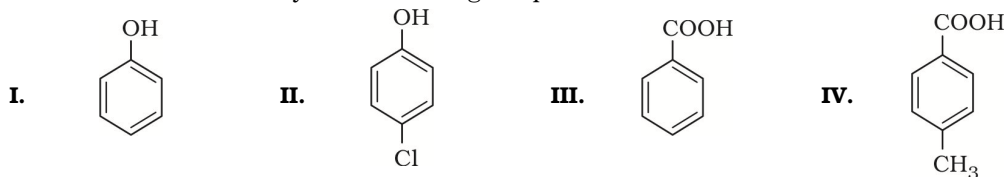
84. Identify correct matching of K_a values?

A.		1.	3.3×10^{-5}
B.		2.	6.3×10^{-5}
C.		3.	30.6×10^{-5}
D.		4.	6.4×10^{-5}
E.		5.	4.2×10^{-5}

The correct choice is:

- (A) A-1 ; B-2 ; C-3 ; D-4 ; E-5 (B) A-3 ; B-5 ; C-4 ; D-1 ; E-2
(C) A-2 ; B-3 ; C-4 ; D-1 ; E-5 (D) A-2 ; B-3 ; C-1 ; D-4 ; E-5

85. The correct order of acidity of the following compounds is:



- (A) III > IV > II > I (B) IV > III > I > II
(C) III > II > I > IV (D) II > III > IV > I