

NEET ALCOHOLS, PHENOLS AND ETHERS — REACTIONS OF ALCOHOLS AND PHENOLS INVOLVING CLEAVAGE OF O–H BOND — PYQS

Max. Marks: 36

Questions: 9

Section A (MCQ) — 9 questions

Q.1 Given below are two statements: one is labelled as **Assertion (A)** and the other is labelled as **Reason (R)**.

Assertion (A): Phenol is more acidic than ethanol.

Reason (R): The phenoxide ion is stabilised by resonance, whereas the ethoxide ion is not.

[NEET (UG) 2023]

- (1) Both A and R are true and R is the correct explanation of A
- (2) Both A and R are true but R is not the correct explanation of A
- (3) A is true but R is false
- (4) A is false but R is true

Scan or tap for the full solution



Q.2 Given below are two statements:
Statement-I: The acidic strength of monosubstituted nitrophenol is higher than phenol because of electron withdrawing nitro group.

Statement-II: o-nitrophenol, m-nitrophenol and p-nitrophenol will have same acidic strength as they have one nitro group attached to the phenolic ring.

In the light of the above statements, choose the most appropriate answer from the options given below :

[NEET (UG) 2022]

- (1) Both Statement-I and Statement-II are correct.
- (2) Both Statement-I and Statement-II are incorrect.
- (3) Statement-I is correct but Statement-II is incorrect.
- (4) Statement-I is incorrect but Statement-II is correct.

Scan or tap for the full solution



Q.3 The compound that is most difficult to protonate is :

[NEET (UG) 2019]

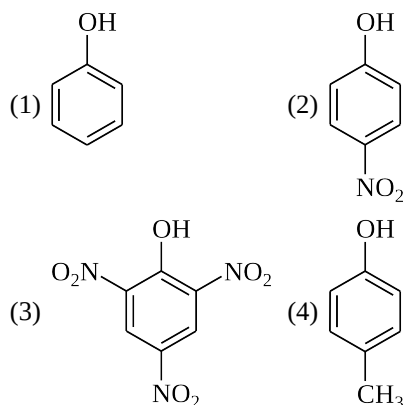
- (1) $\text{H}-\text{O}-\text{H}$
- (2) $\text{H}_3\text{C}-\text{O}-\text{H}$
- (3) $\text{H}_3\text{C}-\text{O}-\text{CH}_3$
- (4) $\text{Ph}-\text{O}-\text{H}$

Scan or tap for the full solution



Q.4 Which one is the most acidic compound?

[NEET 2017]



Scan or tap for the full solution



Q.5 Which of the following will not be soluble in sodium hydrogen carbonate?

[AIPMT 2014]

- (1) 2,4,6-Trinitrophenol
- (2) Benzoic acid
- (3) o-Nitrophenol
- (4) Benzenesulphonic acid

Scan or tap for the full solution



Q.6 Given are cyclohexanol (I), acetic acid (II), 2, 4, 6-trinitrophenol (III) and phenol (IV). In these the order of decreasing acidic character will be

[AIPMT 2010 (Prelims)]

- (1) III > II > IV > I
- (2) II > III > I > IV
- (3) II > III > IV > I
- (4) III > IV > II > I

Scan or tap for the full solution



Q.7 Among the following four compounds

- (i) Phenol
- (ii) Methyl phenol
- (iii) Meta-nitrophenol
- (iv) Para-nitrophenol

The acidity order is [AIPMT 2010 (Prelims)]

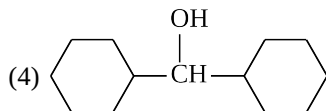
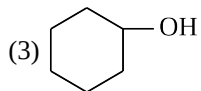
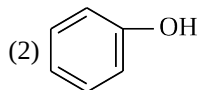
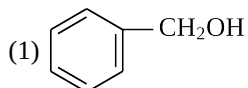
- (1) (iv) > (iii) > (i) > (ii)
- (2) (iii) > (iv) > (i) > (ii)
- (3) (i) > (iv) > (iii) > (ii)
- (4) (ii) > (i) > (iii) > (iv)

Scan or tap for the full solution



Q.8 Which of the following compounds has the most acidic nature?

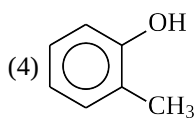
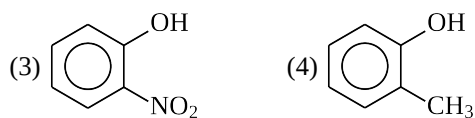
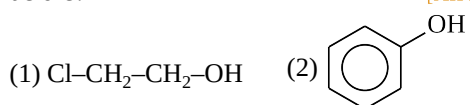
[AIPMT 2010 (Prelims)]



Scan or tap for the
full solution



Q.9 Which one of the following compounds is most acidic?
[AIPMT 2005]



Scan or tap for the
full solution



ANSWER KEY

Ques.	1	2	3	4	5	6	7	8	9		
Ans.	1	3	4	3	3	1	1	2	3		