

Syllabus for TS EAMCET 2019-E Stream (Engineering Stream)

(3)	(ii)	(iii)	(i)	(iv)
(4)	(iii)	(i)	(ii)	(iv)

MODEL QUESTIONS – CHEMISTRY

1. Ionization enthalpies (kJ/mole) of Li, Be, B and C are
 - (1) 520, 801, 899, 1086
 - (2) 1086, 899, 801, 520
 - (3) 520, 899, 801, 1086
 - (4) 801, 520, 899, 1086
2. Which of the following statements is not true?
 - (1) Bond order of N_2 is 3
 - (2) B_2 is paramagnetic
 - (3) SO_2 molecule is linear
 - (4) Hybridisation of B in BCl_3 is sp^2
3. Which of the following is/are more acidic than phenol?
 - (a) C_2H_2
 - (b) C_2H_5OH
 - (c) CH_3COOH
 - (d) CH_3CHO
 - (1) a and b
 - (2) c and d
 - (3) only b
 - (4) only c
4. Assertion (A): Carbonyl compounds undergo nucleophilic addition reactions.
Reason (R): Carbonyl group is non-polar.
The correct answer is:
 - (1) Both (A) and (R) are true and (R) is the correct explanation of (A)
 - (2) Both (A) and (R) are true and (R) is not the correct explanation of (A)
 - (3) (A) is true but (R) is not true
 - (4) (A) is not true but (R) is true

5. Match the following:

LIST I

- (A) Packing efficiency in ccp structure
- (B) Number of atoms in bcc unit cell
- (C) Packing efficiency in simple cubic structure
- (D) Number of atoms in fcc unit cell

LIST II

- (i) 2
- (ii) 4
- (iii) 52.4%
- (iv) 68.0%
- (v) 74.0%

The correct answer is:

- | | (A) | (B) | (C) | (D) |
|-----|-----|-----|-----|-----|
| (1) | v | iv | iii | ii |
| (2) | iii | ii | i | iv |
| (3) | v | i | iii | ii |
| (4) | iv | i | ii | iii |