## Echofriendly STRTI Assignment An opportunity to win Rs. 3 LPA package job

## **Subject : Chemistry**

24/10/2024

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Colour the correct answer circle(s) with **Black ball PEN** and send to infoechofriendlygroup@yahoo.com

## Multiple answers correct

- 1) Among the following, the state function(s) is(are)
- (a) internal energy
- (b) imeversible expansion work
- (c) reversible expansion work
- (d) molar enthalpy.
- 2) Which of the following statement is incorrect for the compound (4)?
- (a) It has trigonal planar geometry.
- (b) The bond length between the central atom and the substituent atom is shorter than the sum of the covalent radii.
- (c) The coordination geometry around central atom of compound (A) and N atom in 1:1 complex of (A) and NH, is same.
- (d) In compound (A), there is  $p\pi$ -d $\pi$  bonding.
- 3) The hybridisation of central atom of compound (R) is
- (a)  $sp^2$
- (b)  $sp^3$
- (d) sp
- (c)  $sp^3d$

## 4) Reasoning Type

This section contains 4 reasoning questions, Each question has 4 choices (a), (b), (c) and (d) out of which only one is corect.

- (a) Statement-1 is True, Statement-2 is True; Statement-2 is a correct explanation for Statement-1.
- (b) Statement-1 is True, Statement-2 is Trues Statement-2 is NOT a correct explanation for Statement-1.
- (c) Statement-1 is True, Statement-2 is False.
- (d) Statement-1 is False, Statement-2 is True.

Statement-1: Partial pressure of a gas remains unaltered if an inert gas is added to this system isothermally and isochorically considering ideal behavior

Statement-2: Sum 1 of the partial pressure of all the gas components in an ideal gaseous mixture is equal to total pressure at a given temperature provided gases are non-reactive.

Stafement-1: The alkali metal can form ionic hydrides which contains the hydride ion H<sup>-</sup>. Statement-2: The alkali metals have low electronegativity value than hydrogen, their molten/fused hydrogen at the anode.