

6. In an LPG cylinder 20 kgs of LPG have been bottled at 27°C under 20 atm pressure. The wall of the cylinder can withstand pressure upto 20 atm. In Kitchen the temperature can raise upto 57°C. Keeping this in view how many kg of LPG should be taken out.

- (A) 1.81 kg (B) 2.81 kg (C) 3 kg (D) 2.5 kg

7. $C_p - C_v = R$ is valid for

- (A) H₂ gas (B) N₂ gas (C) Ideal gas (D) All of the above

8. By solvay process which of the following can be prepared

- (A) Na₂CO₃ (B) K₂CO₃ (C) Both (D) None

9. For which of the following elements $1E_1 = 737$ kJ/mol and $1F_2 = 1450$ kJ/mol.

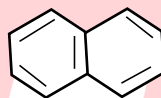
- (A) Na (B) K (C) Mg (D) Fe

10. $2A(s) + 3B(g) = C(l) + D(g)$

For the above reactions which of the followings is correct

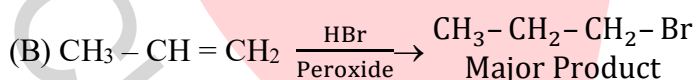
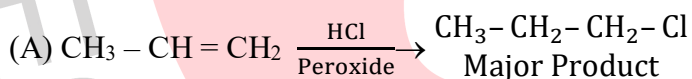
- (A) $\Delta H = \Delta U + 2RT$ (B) $\Delta H = \Delta U - 2RT$ (C) $\Delta H = \Delta U + RT$ (D) $\Delta H = \Delta U - RT$

11. How many degrees of unsaturation are there in



- (A) 4 (B) 5 (C) 6 (D) 7

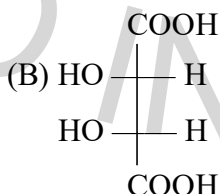
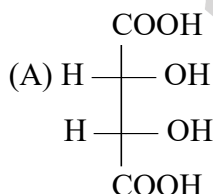
12. In which of the following cases the major product has correctly been shown



(C) Both

(D) None

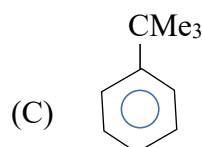
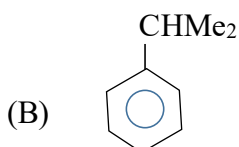
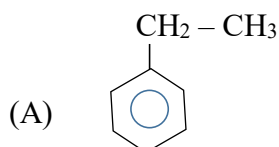
13. Which of the following is the structure of meso tartaric acid.



(C) Both

(D) None

14. Which of the following will not take part in Etard Reactions



(D) Both (2) & (3)

15. $\text{CH}_3 - \text{C} \equiv \text{CH} \xrightarrow{\text{Hg}^{++}/\text{H}_2\text{SO}_4}$ The product is

