www.Padasalai.Net www.Trb Tnpsc.Com FML: FIRST MID TERM TEST - 2024 **11** - Std **CHEMISTRY** Time: 1.30 Marks: 40 PART - I I Answer all the questions :-Choose the correct answer with correct option code :-10 X 1 = 10Which of the following compounds has/have percentage of Carbon same as 1. that in Ethylene (C,H4) a) Propene b) Ethyne c) Benzene d) Ethane The number of water molecules in a drop of water weighing 0.018g is 2. a) 6.022 X 10²⁶ b) 6.022 X 10²³ c) 6.022×10^{20} d) 9.9 X 10²² 3. Splitting of spectral lines in an Electric field is called . a) Zeeman effect b) Shielding effect c) Compton effect d) Stark effect The maximum number of Electrons in a sub shell is given by the expression 4. a) 2n² a) 2l + 1c) 4/ + 2¹ d) none of these Use of hot air balloon in sports at meteorological observation is an application 5. of a) Boyle's law b) Newton's law c) Kelvin's law d) Brown's law Among the following methods which is not applicable for liquefaction of gases 6. a) Linde's method b) Claude method c) Adiabatic process d) Vander Waals method In an adiabatic process, Which of the following is true? 7. a) q = wb) q = 0c) $\Delta E = a$ d) $P\Delta V = 0$ Which of the following is not a thermodynamic function? 8. ூ,a) Internal energy b) Enthalpy c) Entropy

The IUPAC name of the compound $CH_3 - CH = CH - C \equiv CH$ is 9.

a) Pent - 4 - Yn - 2 - ene

b) Pent - 3 - en - 1 - Yne

d) Frictional energy

c) Pernt - 2 - en - 4 - Yne

d) Pent - 1 - Yn - 3 - ene

b) Explain column chromatography. (CC)

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