

FTS

11 - Std**QUARTERLY EXAMINATION - 2023**

11019

CHEMISTRY

--	--	--	--	--

Time : 3.00 hrs

Marks : 70

PART - A

15 X 1 = 15

I Answer all the questions.

- Which one of the following is used as a standard for atomic mass?
a) ${}^6\text{C}^{12}$ b) ${}^7\text{C}^{12}$ c) ${}^6\text{C}^{13}$ d) ${}^6\text{C}^{14}$
- Which one of the following represents 180g of water?
a) 5 moles of water b) 90 moles of water
c) $\frac{6.022 \times 10^{23}}{180}$ moles of water d) 6.022×10^{24} molecules of water
- Two electrons occupying the same orbital are distinguished by
a) Azimuthal quantum number b) Spin quantum number
c) magnetic quantum number d) orbital quantum number
- Which of the following element will have the highest electronegativity?
a) Chlorine b) Nitrogen c) Cesium d) Fluorine
- In a given shell the order of screening effect is
a) $s > p > d > f$ b) $s > p > f > d$ c) $f > d > p > s$ d) $f > p > s > d$
- Ionic hydrides are formed by
a) halogens b) chalcogens c) inert gases d) group one elements
- If temperature and volume of an ideal gas is increased to twice its values, the initial pressure p becomes.
a) $4P$ b) $2P$ c) P d) $3P$
- Use of hot air balloon in sports and meteorological observation is an application of
a) Boyle's law b) Newton's law c) Kelvins law d) Brown's law
- Heat of combustion is always
a) Positive b) Negative c) Zero d) Either positive or negative
- The intensive property among the qualities below is
a) Mass b) Volume c) Enthalphy d) Mass / Volume
- Consider the following reversible reactions at equilibrium, $A + B \rightleftharpoons C$, if the concentration of the reactants A and B are doubled, then the equilibrium constant will
a) Be halved b) remain the same c) be doubled d) become one fourth
- Select the molecules which has only one π bond
a) $\text{CH}_3 - \text{CH} = \text{CH} - \text{CH}_3$ b) $\text{CH}_3 = \text{CH} - \text{CH} - \text{CHO}$
c) $\text{CH}_3 - \text{CH} = \text{CH} - \text{COOH}$ d) All of these
- Ortho and para nitro phenol can be separated by
a) Azeotropic distillation b) Destructive distillation
c) Steam distillation d) Cannot be separated
- Heterolytic fission of C - C bond results in the formation of
a) free radical b) Carbocation c) Carbanion d) Carbanion and Carbocation
- Which of the following is a electrophilie?
a) H_3O b) NH_3 c) NO_2^+ d) CN^-

FTS **11** வேதியியல் PAGE - 1

