

大同大學 107 學年度 (暑)轉學入學考試試題

考試科目:普通化學

系別:材料工程學系

第全頁

註:本次考試 不可以參考自己的書籍及筆記; 不可以使用字典; 不可以使用計算器。

- 1.請寫出各英文元素符號: 20 %
Argon, Barium, Calcium, Copper, Fluorine, Gold, Iron, Lead, Lithium, Magnesium, Mercury,
Potassium, Silicon, Silver, Sodium, Sulfur, Tin, Titanium, Tungsten, Uranium,
- 2.請寫出上題中的各元素的英文符號所屬: 20 %
a/ The alkali metal elements are:

b/ Alkaline earth metal elements are:

c/ Non-metallic elements are:

d/ Transition element are:
3. Pairing the following. 20%
1.() alcohols 2. () ketons 3. () ester 4. () amine 5. () aldehyde
6.() 苯 7.() 乙炔 8.() 丙炔 9.() 丁烯 10.() 戊烷
(a)Methane, (b) Butene (c) R-(C=O)-OH (d) RCOOR (e) Ethene (f) R-C=O (g) propyne (h) R-OH
(i) Benzene, (j) RCNH₂ (k) Pentane (m) RCOR
5. Write structural formulas for the following: 20 %
(a) 2-Methyl heptane (b) cyclo-hexadiene (c) 1,2-Difluoroethane (d) Methyl ethanoate
(e) Aceton (f) Octane (g) styrene (h) Acetic acid (i) Aqua (j) glucose
- 6.名詞解釋: 20%
a) Spontaneous reaction.
b) Constitutional isomers and Stereoisomers.
c) Electrolysis and Prevention of Corrosion.
d) Chelating Agents: Poly dentate ligands.
e) Gas Diffusion and Effusion.
f) Molal freezing-point depression.
g) Carbohydrate: Starch and cellulose are polysaccharides of glucose.
h) Carbon Allotropes.
i) Trigonal planar, Tetrahedral, and Octahedral.
j) Covant bonds, hydrogen bond and London Dispersion forces.