Class: T.Y.B. Sc (Chemistry) **Subject Name: Analytical Chemistry (Paper IV) Semester: VI** Course Code: USCH604 Sample MCQ Questions 1. To estimate a series of a metal ion in a solution, the difference between their half-wave potential must be _____ a) 0.1 V **b) 0.2 V** c) 2 V d) 1 V 2. A graph of _____ versus the applied potential gives curve called Polarogram. a) Volume b) Resistance c) Emf d) Current 3. In polarography, quantitative estimation is possible with concentration as low as a) 10⁻⁹ M b) 0.01 M c) 10⁻⁶ M d) 10^{-3} M 4. In polarography, KCl is used to _____ migration of current. a) Decrease b) Eliminate c) Substitute d) Increase 5. In amperometric titration, the cathode is _____. a) DME b) SCE c) Pt – wire d) Zn-wire 6. In gas chromatography, SE-30 Silicon gum rubber is used as _____ a) Mobile phase b) Solid support

c) Stationary phase

d) Liquid support
7. Affinity of an anion towards an exchanger decreases with increase in
size of
a) Flow time
b) Dead time
c) Detection time
d) End time
8.Ion exchange capacity of resin is expressed in terms of
a) Millimoles
b) Milligrams
c) Milliequivalent
d) Grams
9.Increase in tendency of an ion to form complex the tendency to
get exchanged.
a) Enhance
b) Increases
c) Decreases
d) Same
10 is an example of natural ion-exchanger.
a) Amines
b) Diamond
c) Clay
d) Salt
11. Sulphur dioxide is used as a preservative for
a) Meat
b) Fruits
c) Only Vegetables
d) Both fruits & vegetables
12. Chemically talc is
a) Magnesium silicate
b) Potassium bromide
c) Sodium sulphate
d) Hypo-chloride
13.Fermentation changes theof food.
a) Colour
b) Taste
c) pH
d) Cost
15. Vinegar contains approximately % acetic acid.

a) 33%
b) 15%
c) 4%
d) 30%
16. In DTA, is mostly used as reference material.
a) <i>MgO</i>
b) <i>SiC</i>
c) $Ca(OH)2$
d) <i>SiO</i> 2
17. In DTG, the derivative of TGA is plotted versus
temperature.
a) First
b) Second
c) Partial
d) Zero
18. Generally thermometric titrations are carried out in Dewar flask under
conditions.
a) Isothermal
b) Adiabatic
c) Constant volume
d) Isobaric
19. The differential thermogram for the dehydration shows
peaks.
a) Endothermic
b) Multiple
c) Exothermic
d) Downward
20. Calcium oxalate losses water of crystallization at degree
centigrade.
a) 420°C
b) 220°C
c) 100°C
d) 320°C