

CHM191 TMA1 List of Questions

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Q1 Electric ovens have a temperature range from room temperature to about _____ degree temperature.

- ☐ 100 degrees
- ☐ 200 degrees
- ☒ 300 degree
- ☐ 400 degree

Q2 Copper or aluminium fitted with a series of metallic rings to adjust _____ of a boiling water bath.

- ☐ volume of the container
- ☒ size of the opening
- ☐ size of the container
- ☐ volume of the liquid

Q3 A boiling water bath can be used for all these EXCEPT _____.

- ☐ Heating solutions up to 100 degrees
- ☐ evaporation of liquids
- ☐ digestion of precipitate
- ☒ coagulation of precipitate

Q4 In gravimetric analysis, the precipitate is sometimes heated to a high temperature to convert it into a compound of _____.

- ☐ hygroscopic nature
- ☐ heated nature
- ☒ constant composition
- ☐ chromatographic nature

Q5 _____ increases the solubility of most substances.

- ☐ Melting
- ☐ Freezing
- ☒ Heating
- ☐ Smelting

Q6 All these are components of brief outline of experimental procedure.

- ☐ Apparatus
- ☐ Chemical reagents
- ☐ Brief procedure
- ☒ Results

Q7 Burns generally caused by hot equipment can be treated as _____ are treated.

- ☐ Bruise
- ☒ cuts
- ☐ sprains
- ☐ fire

Q8 An irritant of these chemicals is _____.

- ☒ Benzoyl chloride

- ☐ ethanol
- ☐ nitrobenzene
- ☐ permanganate IV

Q9 AgNO₃ causes _____ burns.

- ☐ acidic
- ☐ basic
- ☐ caustic
- ☐ neutra

Q10 Of all the listed chemical, the most dangerous and which causes rapid destruction of the skin is _____.

- ☐ HF
- ☐ H₂SO₄
- ☐ NO₂
- ☐ Cl₂

Q11 An effective method for purification of volatile solids is _____.

- ☐ distillation
- ☐ crystallization
- ☐ Recrystallization
- ☐ Sublimation

Q12 Crystallization occurs on _____.

- ☐ boiling point
- ☐ melting point
- ☐ cooling
- ☐ freezing

Q13 Insoluble impurities may be removed from a solution by _____.

- ☐ filtration
- ☐ sedimentation
- ☐ colloidation
- ☐ boiling

Q14 Impurity will cause _____ range to become wider .

- ☐ freezing point
- ☐ melting point
- ☐ boiling point
- ☐ ice point

Q15 A sharp melting point have a range of _____

- ☐ 2-3 degree celcius
- ☐ 1-2 degree celcius
- ☐ 4-5 degree celcius
- ☐ 7-8 degree celcius

Q16 A narrow range of temperature in a sample indicates _____

- ☐ high purity
- ☐ high freezing point

- ☐ high boiling point
- ☐ high melting point

Q17 Crystallization process is restricted to _____.

- ☐ liquids
- ☒ solids
- ☐ gas
- ☐ colloids

Q18 A method of separation useful for purification and isolation is _____.

- ☒ crystallization
- ☐ decantation
- ☐ filtration
- ☐ evaporation

Q19 Induced crystal growth can be achieved through _____.

- ☐ filtration
- ☐ pasteurization
- ☒ seeding
- ☐ decantation

Q20 High coloured contaminants may be removed from solution by adding _____.

- ☐ concentrated acid
- ☐ base
- ☒ activated carbon
- ☐ diethyl ether