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CHM192: Introductory Chemistry Practical Ii TMA1

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Instructions: Answer All .

After Submission, you will not be able to answer these questions

Question 1 : Bromine water is added to hydrocarbon X, if the red coloured bromine remains, X could be

- ☒ Alkane
- ☐ Alkyl
- ☐ Alkene
- ☐ Alkyne

Question 2 : A compound X react with potassium permanganate to form brown precipitate Y. Y and X may likely be

- ☐ alkane and manganous oxide
- ☐ an alkene and manganous oxide
- ☒ manganous oxide and an alkene
- ☐ manganous oxide and alkane

Question 3 : I. Melt II. Shrink III. Decompose IV. Sublime. Which of the above occurs to a solid when heated?

- ☒ I,II,III,IV
- ☐ I and IV
- ☐ I and III
- ☐ I,III,IV

Question 4 : The reaction between unsaturated hydrocarbon and potassium permanganate is _____.

- ☐ Formation
- ☒ Oxidation
- ☐ Addition
- ☐ Substiyution



Question 5 : Shortly before the melting point of some solid, the solid tends to get smaller, this process is called

Answer : sintering

- ☐ supercooling
- ☒ sintering

Question 6 : Compounds with the same molecular formula but different structures have

- ☒ different chemical and physical properties
- ☐ None of the above
- ☐ the same physical but different chemical properties
- ☐ different physical but the same chemical properties

Question 7 : Ethanol loses one water molecule to form compound X, X could likely be

- ☐ propane
- ☒ ethene
- ☐ ethane
- ☐ methanol

Question 8 : If you are to extract fats from milk, the solvent to be used is expected to be _____.

- ☐ None of the above
- ☐ almost insoluble in water
- ☒ All of the above
- ☐ boil at a low temperature

Question 9 : Cyclobutane is square and is of _____ shape.

- ☐ Condensed
- ☒ Geometric
- ☐ Structural
- ☐ Constitutional

Question 10 : I. Benzoic acid II. Benzoin III. Benzophenone IV. Benzhydrol. Arrange the following in the order of increasing melting point.

- ☐ IV, III, II, I
- ☐ II, I, IV, III
- ☒ III, IV, I, II
- ☐ I, II, III, IV



Question 11 : Which of these solvents boils at a higher temperature

acetic acid

acetone

☐ Pentane

Question 12 : I. Aromatic II. Alkanes III. Alkenes, which of the above compounds reacts with concentrated sulphuric acid?

☒ III only

☐ I and III

☐ I only

☐ I and II

Question 13 : Introduction of impurity _____ the melting point of solid.

☐ has no effect

☐ increases

☐ None of the above

☒ lowers

Question 14 : When heat is applied to some solid, few degrees below their true melting point, the solid begins to _____.

☐ sublime

☐ expand

☐ melt

☒ sweat

Question 15 : Which of these is/are true?

☐ soluble impurities broaden the melting point range

☐ soluble impurities tend to lower the observed melting point

☐ insoluble impurities have no effect on the melting point

☒ All of the above

Question 16 : It is advisable to use concentrated HCl only in the _____.

☐ laboratory hood

☐ diluted hood

☐ evaporated hood

☒ fume hood



Question 17 : The reaction of hydrocarbon Y with bromine water to give colourless solution could be said to be _____ reaction

- ☐ substitutional
- ☒ additional

Question 18 : For alkanol to be obtained from alkenes, the alkenes must be _____.

- ☐ saturated
- ☐ diluted
- ☐ oxidized
- ☒ hydrated

Question 19 : A mixture of two compounds with the least melting point is called _____ mixture.

- ☐ covalent
- ☐ branching
- ☐ poorly packed
- ☒ eutectic

Question 20 : _____ is the process of losing a water molecule from an alcohol compound

- ☐ Concentration
- ☐ Drying
- ☒ Dehydration
- ☐ Catalysts

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