



**Name:**

**Q1/ Define the followings: (only 4) (20 Marks)**

1. Melting point 2. Distillation 3. Extraction 4. Recrystallization 5. Boiling point

**Q2/ Choose the correct answer: (24 Marks)**

1- The symbol of Partition coefficient :

a- C

b- D

c- P

2- the process used in the separation of orange oil

a- Simple distillation

b- Steam distillation

c- vacuum distillation

3- Simple distillation is used for separation of liquid organic compounds having difference in boiling points by

a- 55 °C

b- 45 °C

c- 50 °C

4- purification of solid organic compounds are performed by

a- Recrystallization

b- Simple distillation

c- Extraction

5- The main advantage of Chlorinated hydrocarbons is

a- Non-flammable

b- High boiling point

c- High cost

6- Purification of liquid compound is carried out by

a- Recrystallization

b- Distillation

c- Extraction

**Q3/Answer the followings: (only 4)**

**(35Marks)**

**1-Write the characteristics of solvent which are chosen in the purification of solid organic compounds? (only three) (9M)**

a-

b-

c-

**2- Enumerate the advantages of caffeine? (only three) (9M)**

a-

b-

c-

**3- Write disadvantages of ether? (9M)**

a-

b-

c-

**4-Enumerate the type of distillation? (9M)**

a-

b-

c-

**5- Draw the simple distillation apparatus? (9M)**

**Q4/Explain Why? (Only three)**

**(21 Marks)**

1- Different compounds have boiled at different temperatures?

2-  $\text{MgSO}_4$  is added to the extracted chloroform?

3- A sample is decolorized by active carbon in the purification?

4- Chloroform used for extraction caffeine from tea?

*Good Luck*

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