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| <u> </u> | Subject: Engineering Chamistry 1 |
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| | Page no : 1/4 |
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| | [발표 기계대 : 1985] [10] [10] [10] [10] [10] [10] [10] [10 |

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Sunda rani

Jash Sarlang, 7128542, DIAD-47, ECI, Page no. 2/4 3) Benzene (0) has the chemical formula CoHo. ii) Each carebon atom is bonded to two other larbon atoms and a single Hydrogen atom.

The 1th bond pair of elections from each (arbon atom is delocalised, creating a delocalised doud of elections above and below the plane. below the plane.

"") Benzine is an hexagonal ring in shape with bond angles of
120 degrees between Carbon atoms. y All the bond lengths in Benzine are equal. for more energetically stable that it should be Jii) Its extra stability is known as its delocalisation everyy.

Jii) Because of its increased energy stability, Benzene will not readily undergo addition reactions, instead it undergoes addition reactions whereby a Hydrogen atom is replaced by (Example. Chlorine in the chlorination of Benzene) ovulap of p orbitals FOR EDUCATIONAL USE Sundaram)

| gz | Jack Salarg, 7128542, DIAD-47, ECI, Page no. 3/4 |
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| d) | for Phase Rule: |
| | Advantages: |
| | i) Applier to both, physical and chemical phase reactions. ii) Provides a suitable basis for classification of equilibrium states of systems by means of phases, components and degrees of breedom. |
| | states of gusterns by many of places traction of equilibrium |
| | of freedom |
| | mobiles to necroscopic systems, therefore information about |
| | iv) It does not take into account the nature or amount of |
| | socialities prosent in the system |
| | Specifics that different systems with the same degrees of breedom behave in a similar manner. |
| | vi) Useful in predicting the behaviour of a system under different |
| | vi) Useful in predicting the behaviour of a system under different conditions of temperature, pressure and composition. vii) Helps in deciding whether the given number of substances together |
| Se W | would exist in equilibrium under a given set of conditions or) whether some of them will have to be inter-converted or diminated. |
| | whether some of them will have to be inter-converted or diminated. |
| | L'initatione: |
| | T) Applies only to systems in equilibrium. To Only applicable, provided all the phases of the system are present under |
| | the same condition of temperature, preserve and gravitational force. |
| | Tii) Applies to a single equilibrium state only. |
| | ing Considers only the number of phases and not thier quantities. |
| A 3 | ond composition. It does not consider other factors such as influence of |
| Sundaram | |

| | Youh Sarang, 7128542, DIAD-47, ECI, Page no 4/4 |
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| | electric or magnetic field vi) The solid and liquid phases should not be finely. Subdivided as to bring about doviation from their normal values of vapour pressure. |
| (D ₂ | of vapour pressure. |
| 2 6 | |
| | The role played by the following one: |
| | These are substances added to enhance the pleaticity of |
| | Plasticizers are added to plastice to increase the |
| | These are substances added to enhance the plasticity of the material and to robuse the cracking on the surface. Plasticizers are added to plastics to increase the flexibility and toughness. They also increase the flow of property of the plastics. Eg. Tricrosyl phosphate, dibutylasolate, castic oil, che. |
| | ii\ filler |
| | These are generally added to thermosetting plantice to increase elasticity and crack resistance. |
| | |
| | Fillers improve thermal stability, strength, non-combustibility exater resistance, electrical properties and external appearance. Eg. Mica, cotton, carbon black, graphite, etc. |
| | (ii) Catalyst. |
| , | These are used in the case of thermo setting plastice to |
| 199 | These are used in the case of thermo setting plastics to accederate the condensation polymerisation to form the cross (+) linked product. |
| Sandaran) | FOR EDUCATIONAL USE |