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AFFECTING RATE OF REACTION : (a) Nature of reaction (b) Temperature (c) Concentration of reactants (d) Catalyst (e) Surface area of solid reactant (f) Presence of light There are certain other factors like light, electrical field etc. also for certain particular reactions.

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(c) 200 ml of 30 M NaCl is added to 300 ml of 40 M NaCl (d) 200 ml of 20 M BaCl<sub>2</sub> is added to 400 ml of 30 M BaCl<sub>2</sub> ...

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PHYSICAL CHEMISTRY By: Shailendra Kumar 1. Opp. Khuda Baksh Library, Ashok Rajpath, Patna - 4 2. House no. 5A/65, Opp. Mahual Kothi, Alpana Market, Patna Page No.: 1 1. Calculate the binding energy for 1 H<sub>2</sub> atom. The mass of 1 H<sub>2</sub> atom is 2.014102 amu, where 1<sub>n</sub> and 1<sub>p</sub> have their weights 2.016490 amu. Neglect mass of electron. Ans: 2.2232 MeV. 2.

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 $N_2O \rightleftharpoons 5 NO_2 + NO_3$   
The activation energy of this reaction is measured to be 88 kJ/mol. The value of k at 0°C is determined to be  $9.16 \times 10^{-3} \text{ s}^{-1}$ . (a) What would be the value of k for this reaction at room temperature, 25°C ? (b) At what temperature would this reaction have a k value of  $6.00 \times 10^{-2} \text{ s}^{-1}$  ?

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Polyethylene can be produced from calcium carbide according to the following sequence of reaction;  
 $CaC_2 + H_2O \rightarrow CaO + HC \equiv CH$   
 $n HC \equiv CH + n H_2 \rightarrow (CH_2 - CH_2)_n$

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PHYSICAL CHEMISTRY By: Shailendra Kumar 1. Opp. Khuda Baksh Library, Ashok Rajpath, Patna - 4 2. House no. 5A/65, Opp. Mahual Kothi, Alpana Market, Patna Page No.: 1 01) Calculate osmotic pressure of a decimolar solution of glucose at 30°C. Ans : 2.488 atm 02) The osmotic pressure of a non volatile solute in C<sub>6</sub>H<sub>6</sub> at 25°C is 20.66 Nm<sup>-2</sup> ...

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PHYSICAL CHEMISTRY By: Shailendra Kumar 1. Opp. Khuda Baksh Library, Ashok Rajpath, Patna - 4 2. House no. 5A/65, Opp. Mahual Kothi, Alpana Market, Patna Page No.: 2 07) Arrange the following in order of increasing tendency of the forward reactions to proceed toward completion. (a) H<sub>2</sub>O(g) H<sub>2</sub>O(l) K<sub>c</sub> = 782 (b) F<sub>2</sub>(g) 2F(g) K<sub>c</sub> =

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4.9 × 10<sup>-21</sup>

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PHYSICAL CHEMISTRY By: Shailendra Kumar 1. Opp. Khuda Baksh Library, Ashok Rajpath, Patna - 4 2. House no. 5A/65, Opp. Mahual Kothi, Alpana Market, Patna Page No.: 4 22. In a solution of ethanol and water, the mole fraction of ethanol is 0.36. What is the mole fraction of water? The molecular weights of ethanol and water are 46 and 18 amu respectively.

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PHYSICAL CHEMISTRY By: Shailendra Kumar 1. Opp. Khuda Baksh Library, Ashok Rajpath, Patna - 4 2. House no. 5A/65, Opp. Mahual Kothi, Alpana Market, Patna Page No.: 1 1. An organic substance gave on analysis the following percentage composition, C = 60%, H = 6.4%, N = 10.1%, O = 23.5%. The

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empirical formula of the compound is :

(a) C 6 H 8 NO 2 ...

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PHYSICAL CHEMISTRY By: Shailendra Kumar 1. Opp. Khuda Baksh Library, Ashok Rajpath, Patna - 4 2. House no. 5A/65, Opp. Mahual Kothi, Alpana Market, Patna Page No.: 2 (c)  $E_a = 35$  KJ/mol  $\Delta E = 10$  KJ/mol Ans : Reaction (c) is fastest and reaction (b) is slowest 6) A certain first-order reaction has a rate constant of  $1.75 \times 10^{-1} \text{ sec}^{-1}$  at  $20^\circ\text{C}$ . What is

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