Vidya Bhawan, Balika Vidyapith Shakti Utthan Ashram, Lakhisarai - 811311 (Bihar) Subject: -Mathematics Class: - K Date: 31/05/2020 Solution of a Pair of Linear Equations in Two Variables HOMOGENIEOUS SYSTEM OF EQUATIONS The system of equations ar x + b, y = 0 az x + b2y = 0 $(When \quad \frac{\alpha_1}{\alpha_2} \neq \frac{b_1}{b_2} \quad then \quad \chi = 0 \quad and \quad \gamma = 0.$ 1) when $\frac{Q_2}{q_2} = \frac{b_1}{b_2}$ then an infinite many number of solutions (Non Zero solutions) 8. Find the value of K for Which the system of Equations 32+5y=0 Kx+10y=0 has nonzero solution: solution: - 9% equations having nonzero polution then Cer = \$ br 7 3 = 102 i. K = 6 Henre The Required value of K = 6 thus g. Find the value of K for which each of the following system of equations has no solution () 82+5y=9 (11) Kx+3y=K-3 (111) Kx+3y=3Kx+10y=15 (12x+Ky=K 12x+Ky=6 I Find the value of K for acich The system of Equations has a nonzero solution. (1) $5\alpha - 3\gamma = 0$ (1) $4\chi - 3\chi = 0$