ALPHA COLLEGE OF ENGINEERING &TECHNOLOGY DEPARTMENT OF CIVIL ENGINEERING DIPLOMA CIVIL 2nd SEM. APPLIED MECHANICS (3300008) CO-PLANER CONCURRENT FORCES FAQ'S

Q-1	Find magnitude of two forces such that if they act at right angle, their resultant is 90 N and when they act at 60° , their resultant is 117 N. (SUMMER 2014)
Q-2	A system of forces is made of two forces of equal magnitude .Determine, using the triangle law of forces, the angle between two forces if magnitude of resultant force is equal to the magnitude of one of the forces. (DEC-2011)
Q-3	The following forces are acting at a point, find the magnitude and direction of the resultant force. 1. 550N acting towards North 2. 900N acting at 40° towards South of West 3. 1.25 kN acting at 60° towards South of East 4. 400N acting from West to East (WINTER 2013)
Q-4	Determine magnitude and direction of resultant force of the force system shown in figure. $ \begin{array}{c} 130N \\ 120N \\ 120N \\ 120N \\ 120N \\ 120N \\ 60^{\circ} \\ 100N \\ 120N \\ 100N \\$
Q-5	A Force system consisting of four forces and its resultant are shown in fig.1.Determine magnitude of unknown forces P1 and P2.
	(MAY-2012)

