DEPARTMENT OF MATHEMATICS

COURSE CODE: M(IT)392

COURSE NAME: NUMERICAL METHOD AND STATISTICS LAB

ASSIGNMENT – VI

Total Marks: 10

QUESTION NO.		QUESTION	MARKS	CO	BLOOM'S TAXONOMY LEVEL
1.		Suppose a man is going to a place by driving a car along the straight road. The velocity of the car at a time interval is given by the following table. $Time(min)$: 0, 2, 4, 6, 8, 10, 12 $Velocity(km/hrs)$: 0, 10, 16, 18, 22, 25, 26			
	(a)	Using C-programming of Newton Forward interpolation, what will be the velocity of the car at the time 3.2 minutes?	10	CO 3	Apply
		or			
	(b)	Using C-programming of Newton Backward interpolation, what will be the velocity of the car at the time 11.5 minutes?	10	CO 3	Apply