

APPLICABLE FORMULAE FROM FORMULA SHEET			
$A = P(1 + i)^n$	$A = P(1 - i)^n$	$A = P(1 - i)^n$	$A = P(1 + i)^n$
$F = \frac{x[(1 + i)^n - 1]}{i}$		$P = \frac{x[1 - (1 + i)^{-n}]}{i}$	

	Formulae	Type	Common terminology
INCREASING AMOUNTS			
5.1 Investments / Growth	5.1.1 $A = P(1 + i \cdot n)$	Simple interest	- rate per annum at simple interest
	5.1.2 $A = P(1 + i)^n$	Compound interest, lump sum over a period of time	-Interest compounded yearly/annually, monthly, quarterly or half yearly -invest money, deposit money, grow, appreciate, - compound increase/ compound growth/ inflation
	5.1.3 $Fv = \frac{x[(1 + i)^n - 1]}{i}$	Annuities , same deposits / instalments at equal intervals e.g. monthly, yearly, quarterly or half yearly etc.	-monthly, yearly, quarterly or half-yearly instalment
DECREASING AMOUNTS			
5.2 Depreciation / Decay / Loss of value	5.2.1 $A = P(1 - i \cdot n)$	Straight line depreciation	-straight-line depreciation/ linear reduction/ straight line decay;
	5.2.2 $A = P(1 - i)^n$	Depreciation on a reducing /diminishing balance	- value depreciates at $x\%$ p.a. - reducing balance/ diminishing balance/ compound decay/ compound decrease;
5.3 Loan Repayments	5.3.1 $Pv = \frac{x[1 - (1 + i)^{-n}]}{i}$	Loan repayment Or Getting monthly payments from an investment amount that will decrease	-loan repayment - making \times monthly, quarterly, or yearly instalment, etc -deposits made at the end of every month, year, quarter or half-year -someone borrows the money
	INTEGRATION OF FORMULAE		
	5.3.2 $P(1 + i)^n = \frac{x[(1 + i)^n - 1]}{i}$	Balance on outstanding loan based on monthly repayments. This can also be done in two separate steps.	

5.4 Effective	5.4.1 $1 + i_{\text{eff}} = \left(1 + \frac{i}{n}\right)^n$	nominal / effective rate	nominal to effective rate
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