Q1.	AS=\$17,000
	Revenue(A)=\$1500/year 9nvestment(I) = \$60,000
	06 M =\$500/year 1 Revenue (R) = \$1500/year
	Period (N) = 6 years
	I=\$60,000 0&M =\$500/year
	Lalvage (5) = \$17,000
	Effective (R-OM) = \$1000/year.
2 -	
02.	Total Amount = \$500,000
	Down Payment = 15% of total Amount
	15 ,500,0dd
	Pending Amount : \$425,000
	Option 1.
	10°/0 with 25 years
2	:. Monthly payment = \$3,861.98 [From Excel]
	option 2:
	111/1. with 35 years
	: Monthly payment = \$3,982.07 [from Excel]
	25 years with 10% is a better option.
	JO O. DOUT
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1	6	-	7
1	4	۷	'n

R3 P = \$90,000

N = 48

I = 12% = 1% (monthly)

Monthly Payment = \$2,370.05

Amount to be paid after 20th installment = \$57,631.07

QA PY = 1900

FU = 2100

Interest = 10.53% = (200 × 100)

Nominal Rate (92) = imxM

= 126°/0

Effective Interest Rate =  $(1+\frac{\mu}{m})^m - 1$ = 232°1.

Q5. Alternative A

PW = -P + A(P/A, i, N) + F(P/F, i, N)

= -460,000 + 48000 (P/A,10,7) + 115000 (P/F, 10,7)

= -460,000 + 48,000 (4.8684) + 115000 (0.5132)

= (-167,298.8)

AW = -P(A/P, i, N) + A + F(A/F, i, N)

= -460,000 (A/P, 10,7) + 48,000 + 115,000 (A/F,1D,7)

= -460,000 (0.2054) + 48,000 + 115,000 (0.1054)

= (-34,363)

FW = -P(F/P,i,N) + A(F/A,i,N)+F = -460000 (1.9487) +48000 (9.4872) +115000 = (-326,016.4)

Alternative B

PW = -P+A(P/A, i, N)+ F(P/F, i, N) = -480,000 + 35000 (4.8684) + 160000 (0.5132) =(-227,494)

AE = -P(AIP, i, N) + A+ F(AIF, i, N) = -480000 (0.2054) + 35000 + 160000 (0.1054) =(-46,728)

FW = -P(F/P, i, N) + A(F/A, i, N) + F = -480000 (1.9487) + 35000 (9.4872) + 160000 =(-443,324)

As alternative A's PW & albrinative B's PW. Alternative A is a better plan.

Investment = \$70,000 Q6 Expenses = \$40,000Revenue = \$60,000

Effective (A) = \$20,000 N = 12 years MARR = 20%

Ealvage = \$9,000

Q6 rtd	CR = (1-5) (AIP, i, N)+5	
CONS	= (-87,798.70)	
	om = \$20,000	
	EVAC = CR + OEM	
	= (-67,798.70)	
♠ Ø7.	P = - 700,000	
	A = \$ 190,000	
	N = 10	
	Guess 1 (20%)	Guers 2 (25%)
	PW = -P+ A(P/A,i,N)	PW = -P + A (P/A, i, N)
	= -700,000 + 190,000 (P/A,20%,10)	=-700000+190000 (P/A, 25%, 10)
	z - 700000 + 190000 (4·1925)	= -700000 + 190000 (3.5705)
	= \$ 96,575	= (-21, 605)
	Interpolation	
	1 1 2 2 1 1 1 2	

Interpolation  $y = y_1 + (x - x_1)(y_2 - y_1)$   $(x_2 - x_1)$  y = 20 + (-96575)(5) (-118180) y = 24.09%

0.8	-> Alternative A.	Alternative B
	B = \$3,250,000	8:\$4,850,000
	C' = \$400,000	C' = \$ 550,000
	1 = \$15,000,000	.1 = \$22,000,000
	PW of B	PW of B
	= A (PIA, 12%, 50)	= A(P A, 12, 50)
	= 3,250,000 x 8.3045	= 4,850,000 × 8.3045
	= \$26,989,620.09	= \$40,276,817.67
	Pw of c'	pw of c'
	= A (PIA, 121/, 50)	= A (P/A, 12, 50)
	- \$ 3,321,799.40	= \$4,567,474.17
	PW of C = 1+C'	PW of C = 1+ C) = \$ 26,567,474.17
	= \$18,321,799.40	= \$ 26,567,474.17
	BCR = B/c	BCR = 13/C
	= 1-47	= 1.51
	BCR > 1 : Accept:	BCR > 1 : Accept.
	B(R(i) - Ba - BA	

BCR(i) B-A = BB- BA CB- CA = 1.61

": B(R(i) B-A > 1

Select Atternative B.

			1.01				
Q9.	$I = $32,000$ $X = \frac{1}{N}(2) = 0.4$						
	$S = $6,500$ $Dn = (1-5)$ for straight line & $Dn = &I(1-\alpha)^{n-1}$						
	N=5						for DDB.
	Straight line method X DDB method						
	0	Dn	BVn	X	Pn	Byr	
	0		\$32,000	4 -	and the second s	\$ 32,00	D
	1	\$5,100	\$ 26,900	0.4	\$ 12,800	\$ 19,20	0
	2	\$5,100	\$21,800	0.4	\$ 7,680	\$ 11,52	0
	3	\$5,100	\$16,700	0.4	\$ 4,508	\$ 6,912	
	4	\$5,100	\$11,600	0.4	\$ 2,764.80	\$4,147	.20
	5	\$5,100	\$6,500	1 6.4	\$ 1,658 . 88	\$ 2,488 .	32
@10	(P =	\$50,000	1000年1月1日	Expe	inse = \$300	3057	
	0 =	13%		5	= \$9,000		
	N=	2		Incor	ne Tax = 30%		
	A=\$5,000 MARR = 18%						
	Working Capital = \$13,000						
		0					
	1	AE = \$20	7,974.18				
1							
		Loan Pay	ment				
	Yea	0	Beginning	Interes	st Pancif		Ending
		200	Balance	Payme	nt Paymen \$23,47	nt.	Balance.
	1	\$	50,000	\$6,500	\$ 23,47	14.18	\$ 26,525.82
	2	. \$	26,525.82	\$ 3,44	8.36 \$26,52	5.82	-

Q10 0	ontined			
	Depreciation	Table!		
		MACRS	Dr	BYn
	0			\$50,000
	,	45%	\$ 22,000	\$27,000
	2	55%	\$27,500	
	capital Gain/	L055.		
	BV = 0			
	5 = \$9000			
	5>31	:. Taxable	Gain = 5-B	1
			= \$900	0
	Tox hate =30	0/,		
	: capital Go	ain/Eoss =	30%. 01 9000	= \$2,700
			0	
	Income St	arement-		
	tear		)	2
	Revenue	\$	5000	\$ 5000
	Expenses:			
	- cash		\$300	\$300
	- Depreciation	\$:	22,500	\$27,500
	- Interest Payn	nevit \$	6,500	\$ 3448-36
	Taxable Income		24,300	\$ 26,248.36
	Income Tex	\$	7,290	\$ 7,874.51
	Net Income	\$15	7,010	\$ 18,373.85
	A RESIDENCE OF THE PROPERTY OF	THE RESIDENCE OF THE PARTY OF T		

cash Flow			
7000			2
Tear	0		2
Operating Activities			
- Net Income		(-\$17,010)	(\$18,343.85)
Depreciation		\$ 22,500	\$27,500
Investment Activities			
Investment	0		
Salvage			\$9000
- Gains Tax			(-\$2,700)
	(-\$13,000)		
- Wasking Capital Pinancing Activities			
-Borrowod	\$ 50,000		
- Loan Repayment		(-\$ 23,474.18)	(\$ 26525.82
Net Cash Flow	\$37,000	(-\$ 17984.18)	(-\$11,099.67)
	,	,	
Present Worth =	C\$69.618:9	(4)	
7 1030111 1077111		investment.	
	000	1110000	
IRR - Excel			

(8