#### **Question No. 1**

(a)

#### Skylight (Pvt.) Limited Cash Budget from February 2018 to April 2018

					Rs.	in million	
	Nov	Dec	Jan	Feb	Mar	Apr	
	2017	2017	2018	2018	2018	2018	
Cash Receipts:							
Monthly sales	1,250.00	1,300.00	1,350.00	1,420.00	1,450.00	1,480.00	
Cash collections:							
50% cash sales in the month of sale	_	-	-	710.00	725.00	740.00	0.75
25% in subsequent month of sales	-	-		337.50	355.00	362.50	0.75
15% in second month after sale and	_	-	-	195.00	202.50	213.00	0.75
Remaining 10% in third month after sale	_	_		125.00	130.00	135.00	0.75
Total month-wise cash receipts	_	- 🔶	_	1,367.50	1,412.50	1,450.50	0.5
Cash Payments:							
Salaries and wages	_		_	250.00	250.00	280.00	0.75
Payments to creditors of raw materials	_		-	1,250.00	1,275.00	1,290.00	0.75
Other administrative expenses	-	-	-	35.00	35.00	35.00	0.75
Total month-wise cash payments	-	7	_	1,535.00	1,560.00	1,605.00	0.5
Cash surplus/ (deficit)			_	(167.50)	(147.50)	(154.50)	0.75

### (b) Working of Additional Bank Borrowing:

			F	Rs. in million	_
	Jan 2018	Feb 2018	Mar 2018	Apr 2018	
Opening balance of bank borrowing	_	320.00	487.50	635.00	0.75
Additional borrowings		167.50	147.50	154.50	0.75
Closing balance of bank borrowing	320.00	487.50	635.00	789.50	0.5
					-

(c)				
			Rs. in million	
	Actual (as at Jan 2018)	Change	Projected (as at April 2018)	
Assets				
Non-current assets	2,330.00	2,330.00 –		0.5
Current assets:				
Cash	200.00	-	200.00	0.5
Trade receivables	1,125.00	119.50	1,244.50 [W-1]	0.5
Inventories	1,250.00	65.00	1,315.00	0.5
Total current assets	2,575.00	184.50	2,759.50	
Total assets	4,905.00	184.50	5,089.50	

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			Rs. in million	_
	Actual (as at Jan 2018)	Change	Projected (as at April 2018)	
Equity and Liabilities				-
Equity:				
Common stock	2,500.00	-	2,500.00	0.5
Retained earnings	635.00	(350.00)	285.00	0.5
Total equity	3,135.00	(350.00)	2,785.00	-
Current liabilities:				
Trade payables	1,250.00	65.00	1,315.00	0.5
Bank borrowings	320.00	469.50	789.50	0.5
Accrued expenses	200.00	I	200.00	0.5
Total current liabilities	1,770.00	534.50	2,304.50	-
Total equity and liabilities	4,905.00	184.50	5,089.50	0.5
		Rs. in million	_	
W-1: Working of closing	projected debtors:		-	
50% sales of April 2018	3	740.00		0.25
25% sales of March 20	18	362.50		0.25
10% sales of February2	2018	142.00	_	0.25
		1,244.50	-	0.25

Question No. 2							
Relevant Costs: In-House Manage	ment A	Iternative					
				Rupees			
Cash discount (5 m x 0.02	x 0.40)	7		40,000	0.5		
Cost of funds in receivable	s (W-1)	)		58,334	0.5		
Bad debt losses (Rs.5 milli	on x 0.0	02)		100,000	0.5		
Lost contribution on forego	Lost contribution on foregone sales [1,000,000 x (0.20 – 0.02 Bad debts)]						
Avoidable administrative or	verhead	ls		100,000	0.5		
				478,334	0.5		
W-1:							
Cost of Funds Invested in Receiva	bles:						
Average collection period	=	(10 days x 0.4) + (60 days x 0.60)	=	40 days	0.5		
Cost of bank finance	=	Rs.5 million x 3/4 x 40/360 x 0.1	=	Rs.41,667	0.5		
Cost of own funds	=	Rs.5 million x 1/4 x 40/360 x 0.12	=	Rs.16,667	0.5		
Total	=	Rs.58,334			0.5		

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Releva	ant Costs: Recourse Factoring Alternative:		
		Rupees	
	Factoring commission (6 million x 0.03)	180,000	
	Discount charge (W-2)	46,560	
	Cost of long-term funds invested in receivables [( $6,000,000 - 4,656,000$ ) x 0.12 x 30/360)]	13,440	
		240,000	
-2:			
	Eligible amount of advance = 0.80 x (Rs.6 m - Rs.180,000) =	Rs.4,656,000	
	Discount charge = Rs.4,656,000 x 0.12 x 30/360 =	Rs. 46,560	
eleva	ant Costs: Non-recourse Factoring Alternative		
		Rupees	
	Factoring commission (Rs.6 m x 0.05)	300,000	
	Discount charge (W-3)	60,563	
	Cost of long-term funds invested in receivables [ $(6 \text{ m} - 4,845,000) \times 0.12$ 30/360)]	x 11.550	
		372,113	
-3:	Elizible amount of advance 0.85 x 6.000.000 - 200.000	Do 4 845 000	
	Eligible amount of advance = $0.85 \times 6,000,000 - 300,000$ =	RS.4,845,000	
	Discount charge = $Rs.4,845,000 \times 0.15 \times 30/360$ =	Rs.60,563	
)ecis	sion Analysis: Recourse Factoring		
		Rupees	
	Benefits (Rs.478,334 - 100,000 Bad debts yet to be met by Royal limited)	378,334	
	Cost	240,000	
	Net benefits	138,334	
Decis	sion Analysis: Non-Recourse Factoring		
		Rupees	
	Benefits (Rs.478,334+ 20,000 Bad debts loss to be borne by factor)	498,334	
	Cost	372,113	
	Net benefits	126 221	

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**STRATEGIC FINANCIAL MANAGEMENT [C3] - CHARTERED LEVEL** 

						Marks
Question No. 3						
(a)	Bo	=			Rs.1,100	
	Ι	=	0.1 × Rs. 1,000	=	Rs.100	0.5
	Current yield	=	Annual interest Current price			
		=	Rs.100 Rs.1,100	=	9.09%	1.5
(b)	Rs.1,100	=	Rs.100/r <sub>d</sub> × [ 1 – 1/	(1 + r <sub>d</sub> ) <sup>10</sup> +	- Rs.1,000 × 1/(1+r <sub>d</sub> ) <sup>10</sup>	0.5
	Because if r <sub>d</sub>	=	$10\%, B_0 =$	Rs.1,000	XU	
	M, try r <sub>d</sub> = 9%					0.5
	B <sub>0</sub>	=	Rs. 100× [PVIFA <sub>99</sub>	<sub>%,10</sub> )] + Rs	s.1,000 × (PVIF <sub>9%,10</sub> )	0.5
		=	(Rs. 100 × 6.418) -	⊦ (Rs.1,0	00 × 0.422)	0.5
		=	Rs. 641.8 + Rs.422	2		0.5
		=	Rs.1,063.8			0.5
	Because Rs.	1,063.8	< Rs.1,100, try $r_d$ =	8%.		0.5
	B <sub>0</sub>	=	Rs. 100x [PVIFA 89	<sub>6,10</sub> ] + Rs.	1,000 x(PVIF <sub>8%,10</sub> )	0.5
		=	(Rs.100 × 6.71) + (	(Rs.1,000	× 0.463)	0.5
		=	Rs.671 + Rs.463			0.5
		=	Rs.1,134			0.5
Because the rate is lower the Rs.1,134	Rs. 1,134 value than Rs.1,100, value is closer	e at 8% the bor to inter	is higher than Rs. 1 nd's yield to maturity polation, the more pr	,100 and must be recise YT	the Rs. 1,063.8 value at the 9% between 8% and 9%. Because M value is:	1

YTM	=	0.08 + (.0908)(1134-1100)/(1134-1063.8)	0.5
	=	0.08 + (0.01 × 0.48)	0.5
	=	8.48%	0.5

(c) The YTM of 8.48% is below both the bond's 10% coupon interest rate and its current yield of 9.09% calculated in part (a) because the bonds market value of Rs. 1,100 is above its par value (it sells at a premium), its YTM and current yield will be below its coupon interest rate; when a bond sells at par, the YTM and current yield will equal its coupon interest rate; and when the bond sells for less than par (at a discount), its YTM and current yield will be greater than its coupon interest rate.

Observe also that the current yield measures the bond's coupon payment relative to its current price. When the bond sells at a premium, its YTM will be below its current yield because the YTM also takes into account that the bondholder will receive just Rs.1,000 back at maturity, which represents a loss relative to the bond's current market price. In other words, the YTM is measuring both the value of the coupon payment that the investor receives (just like the current yield does) and the "loss" that the bondholder endures when the bond matures.

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#### **Question No. 4**

Present value of cash outflow under Buying Option:

						Rupees	
	Loop	Tax adv	antage on	Net Cash	D\/IE at	Total	
Year	installment	Interest x 31%	Depreciation x 31%	outflow 2-(3+4)	12%	Present Value	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	
1	80,476,900	13,392,000	15,066,000	52,018,900	0.893	46,452,878	0.5
2	80,476,900	12,467,533	15,066,000	52,943,367	0.797	42,195,864	0.5
3	80,476,900	11,469,108	15,066,000	53,941,792	0.712	38,406,556	0.5
4	80,476,900	10,390,810	15,066,000	55,020,090	0.636	34,992,777	0.5
5	80,476,900	9,226,248	15,066,000	56,184,652	0.567	31,856,698	0.5
6	80,476,900	7,968,520	15,066,000	57,442,380	0.507	29,123,287	0.5
7	80,476,900	6,610,175	15,066,000	58,800,725	0.452	26,577,928	0.5
8	80,476,900	5,143,162	15,066,000	60,267,738	0.404	24,348,166	0.5
9	80,476,900	3,558,787	15,066,000	61,852,113	0.361	22,328,613	0.5
10	80,476,900	1,847,663	15,066,000	63,563,237	0.322	20,467,362	0.5
						316,750,127	0.25
10	Present value	e of salvage va	alue	54,000,000	0.322	17,388,000	0.5
					Total	299,362,127	0.25

#### Working Notes:

	Rupees
Estimated cost of Tower	540,000,000
Equivalent annual loan installment (540,000,000 ÷ 6.710)	80,476,900

Schedule of debt payment

					Rupees	
	Loan	Loan at the	Payn	nents	Loan at the	
Year	installment beginning of the		Interest Principal		end of the year	
(1)	(2)	(3)	(4)	(5)	(6)	
1	80,476,900	540,000,000	43,200,000	37,276,900	502,723,100	0.5
2	80,476,900	502,723,100	40,217,848	40,259,052	462,464,048	0.5
3	80,476,900	462,464,048	36,997,124	43,479,776	418,984,272	0.5
4	80,476,900	418,984,272	33,518,742	46,958,158	372,026,114	0.5
5	80,476,900	372,026,114	29,762,089	50,714,811	321,311,303	0.5
6	80,476,900	321,311,303	25,704,904	54,771,996	266,539,307	0.5
7	80,476,900	266,539,307	21,323,145	59,153,755	207,385,551	0.5
8	80,476,900	207,385,551	16,590,844	63,886,056	143,499,496	0.5
9	80,476,900	143,499,496	11,479,960	68,996,940	74,502,555	0.5
10	80,476,900	74,502,555	5,960,204	74,516,696	(14,140)	0.5

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Marks

0.5

									Marks
	Schedule	of Depreciation				Bur			
	Cost of toy	wor				540.000	000		0 25
	Less: Salv	age value (10%	(a)			54 000	,000		0.25
	2000.04.1	ago raído (ro,	•)			486.000	.000		0.25
	Annual de	preciation				48,600	,000		0.25
Present value of	cash outflo	w under Lease	Ontion:						
			Option.				Bu	bees	
Year le	Annual ase rentals	Tax @ 31%	Annua rentals	al lease after tax	PVIF a 12%	it To	otal Prese Value	ent	
1-10 7	75,500,000	23,405,000	52,09	95,000	5.650	29	94,336,75	50	2
Decision:									
							Rup	bees	
Total pre	sent value ι	under buying op	otion				299,362	,127	
Total pre	sent value ι	under lease opt	ion				294,336	,750	0.25
Al-Jasim Teleco	m snouia op	t lease option i	n acquini	ng tower to	r 4G servi	ce.			0.25
Question No. 5									
Cost of Preferen	ce Share Ca	apital (K <sub>p</sub> ):							
K	р =	$D_p \div P_o$							
K	р =	1.8 ÷ 12.5		=	14.409	%			1
Cost of Equity S	hare Capita	l (Ke) – Using C	Capital As	sset Pricing	Model:				
K	e =	$R_f + (R_m - R_f)$	β						
K	e =	5.50% + (9.59	%) x 0.8	=	13.10	%			1
Cost of Long-Te	rm Loan (K <sub>t</sub> )	):							
К	t =	l (1-t)							
ĸ	t =	18% (1-0.31)		=	12.42	%			1
Cost of Debentu	re (K <sub>d</sub> ):								
		_	Years	Rupees	DF at 11%	PV	DF at 12%	PV	
Current e	x-interest de	ebenture	~	(4 4 6)	1 000		1 000		0.05
market va			U ₁	(110)	1.000	(110) 12 515	1.000	(110) 12 205	0.25
	entures		ו 2	15 15	0.901	10.010 10.19	0.093	13.390	0.20
			2	15	0.012	10 965	0.797	10.68	0.25
Redeeme	d value		4	115	0.659	75.785	0.636	73.14	0.25

K<sub>d</sub> (using IRR) before tax

K<sub>d</sub> (using IRR) after tax

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2.445

0.25

0.25

0.25

(0.83)

8.07%

11.70%

### SUGGESTED SOLUTIONS/ ANSWERS – FALL 2017 EXAMINATIONS

# STRATEGIC FINANCIAL MANAGEMENT [C3] - CHARTERED LEVEL

### Marks

	Rs. in million	
18% preference shares (face value Rs. 10 per share) [(Rs. 125 million / Rs. 10) x 12.5]	156.25	0.5
Equity share capital (face value Rs. 10 per share) [(Rs. 385 million/ Rs. 10) x 28]	1,078	0.5
18% long-term loans	325	0.5
15% debentures [(Rs. 230 million/ Rs. 100) x 110]	253	0.5
	1,812.25	0.5
	Rs. in million	
Market Weights Post T	ax Weighted	

		Woighte					
	Values	vveignis	Cost %	Cost (%)			
18% preference shares	156.25	8.62%	14.40%	1.24%	0.5		
Equity share capital (face value Rs. 10 per share)	1,078	59.48%	13.10%	7.79%	0.5		
18% long-term loans	325	17.93%	12.42%	2.20%	0.5		
15% debentures	253	13.96%	8.07%	1.13%	0.5		
	1,812.25	100%		12.36%	0.5		

Question	No.	6

No. of shares			22,000,000	0.25
Saim Company earning (Rupees)	247,500,000	0.25		
EPS (Rupees)			11.25	0.25
P/E ratio (225 ÷ 11.25)			20	0.5
Danish Company P/E ratio (20 x 1.1)			22	0.5
No. of shares			2,500,000	0.25
EPS (Rupees)			12.5	0.25
Estimated value of shares (Rupees)			275	0.25
Gain in cash offer (308 – 275 )			33	0.5
% gain (33 ÷ 275)	12%	0.5		
Gain Under Share-for-Share:				
Equity value of Saim Company (22,000,	000 x	225) (Rupees)	4,950,000,000	0.5
Equity value of Danish Company (2,500	<b>0,000</b> מ	x 275) (Rupees)	687,500,000	0.5
Synergy savings (Rupees)			141,250,000	0.25
Total equity value (Rupees)			5,778,750,000	0.25
Total no. of shares (22,000,000 + 3,125	,000)		25,125,000	0.5
Expected share price (Rupees)			230	0.25
Gain per Danish Company share	=	[(5 x 230) – (4 :	× 275)] ÷ 4	0.5
	=	12.5		0.25
In %	=	12.5 ÷ 275	= 5%	0.5

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Bond Offer:

					Rupees	
Year	Cash Flow	DF AT 5%	PV	DF 6%	PV	
0	(1,040)	_	(1,040)	_	(1,040)	0.75
1	70	0.952	66.667	0.943	66.0377	0.75
2	70	0.907	63.492	0.890	62.2996	0.75
3	1,070	0.864	924.306	0.840	898.392	0.75
			14.465		(13.270)	0.5

Rate o	f return =	0.05+(14.4	14.465 465 + 13.27	70) × (0.06–0.05)	0.5
	=	0.0552	=	5.52% OR 5.50%	0.5
Year	Cash Flow	DF AT 5	5.50%	PV	
1	30	0.94	.8	28.44	0.5
2	30	0.89	8	26.94	0.5
3	1,030	0.852 877.56		877.56	0.5
				932.94	0.5
Value per sh	are (933 ÷ 3)			311	0.5
Gain per sha	are (311 – 275)			36	0.5
% gain (36 ÷	- 275)			13%	0.5

(a)	According to t	the binomial mo	del:				
		$C = \Delta S - B$					0.5
		$\Delta = \frac{C_u}{S(u-d)}$					0.5
		$B = \frac{dC_u - uC_d}{(u - d)R}$	L				0.5
		C <sub>u</sub> = Max (us -	– E, 0)				0.5
		$C_d = Max (dS)$	– E, 0)				0.5
	Given:						
		S = Rs.100,	E = Rs.90,	C = Rs.15,	R = 1.055,	d = 0.8	
		$C_{d} = Max (0.08)$	8 × 100 – 90, 0)	= 0			0.5
	Since	C = Rs. 15, uS	6 – E has to be po	ositive.			0.5
	So,						
		$C_u = uS - E =$	u × 100 – 90				0.5
		$\Delta = \frac{100u - 90}{100(u - 0)}$	<u>-0</u> .8)				0.5

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Marks

SUGGESTED SOLUTIONS/ ANSWERS – FALL 2017 EXAMINATIONS	9 of 9
STRATEGIC FINANCIAL MANAGEMENT [C3] – CHARTERED LEV	EL
	Marks
B = 0.8(100u - 90) - 0	
1.055(u - 0.8)	0.5
$C = \Delta S - B$	0.5
(100u - 90) = 0.8(100u - 90)	
$15 = \frac{100(u - 0.8)}{100(u - 0.8)} \times 100 - \frac{10055(u - 0.8)}{10055(u - 0.8)}$	0.5
Multiplying both the sides by $(u - 0.8)$ we get:	0.5
15 (v. 0.8) 100v. 00 0.8(100u-90)	
15(u - 0.8) = 100u - 90 - 1.055	0.5
Solving this for u we get u = 1.0636	0.5
So, the stock can rise by 6.36%	0.5
$S_0 = Rs.100$ $u = 1.1$ $d = 0.8$	0.5
E = Rs.90 R = 1.055	0.5
$\Delta = \frac{C_u - C_d}{(c_u - C_d)} = \frac{20 - 0}{20 - (c_u - C_d)} = \frac{20}{20}$	1.5
$(u - d) S = 0.3 \times 100 = 30$	0.5
$G_u = Max (us - E, 0)$	0.5
= Max (100x1.1 - 50, 0) = 20	0.5
$O_d = Max (100x0.8 - 90.0) - 0$	0.5
= 1000000 = 30000 = 0000000 = 0000000000	0.0
$B = \frac{0.0 d_{d} - d_{d} G_{u}}{(u - d) R} = \frac{1.1 \times 0 - 0.3 \times 20}{0.3 \times 1.055} = -50.55$	1

(b)

$$C = \Delta S + B \qquad 0.5$$

$$= \frac{20}{30} \times 100 - 50.55 = 16.12$$
 1

9 

THE END