## STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI – 86 (For candidates admitted from the academic year 2023 – 2024)

## B.COM DEGREE EXAMINATION, NOVEMBER 2024 ACCOUNTING AND FINANCE THIRD SEMESTER

**COURSE** : MAJOR CORE

PAPER : FINANCIAL MANAGEMENT

SUBJECT CODE : 23AF /MC/FM34

TIME : 3 HOURS MAX. MARKS: 100

Q. No.	,	2=10 marks)	CO	KL
1	Answer all the Questions:	1	1	
1	A person is required to pay four equal annual payments of Rs. 4,000 each in his deposit account that pays 10% per year.			1
	Find out future value of annuity at the end of 4 years.			
2	Write a note on Sale and Lease back.	jeurs .	1	1
3	What is the theory of dividend Irrelevancy adv	ocated by	1	1
	Modigliani and Miller?			_
4	The following are the operating results of a firm	n:	1	1
	Sales (units) 25,000			
	Interest p.a. Rs.30,000			
	Selling Per unit Rs.24			
	Tax rate 50%			
	Variable Cost per unit Rs.16			
	No.of equity shares 10,000			
	Fixed cost p.a. Rs.80,000			
	Find Financial Leverage.			
5	Geeta Ltd. Is implementing a project with an in	itial capital	1	1
	outlay of Rs.7,600. Its cash inflows are as follo	ws;		
	Year Rs.			
	1 6,000			
	2 2,000			
	3 1,000			
	4 5,000			
	The expected rate of return on the capital invest	ted is 12% p.a.		
	Calculate the discount payback period.			
Q. No.	·	x5=20 marks)	CO	KL
	Answer any four questions:		2	
6		Consider the following investment opportunity;		2
	A machine is available for purchase at a cost of Rs.80,000			
	We expect it to have a life of five years and to have a scrap			
	value of Rs.10,000 at the end of the five years period. We			
	have estimated that it will generate additional profits over its life as follows:			
	life as follows:			

	<b>X</b> 7	(D)			
	Year	Amount (Rs.)	_		
	1	20,000			
	2	40,000			
	3	30,000	_		
	4	15,000			
	5	5,000			
	Can the	e proposal be ac	ecented?		
7			maximization objective is superior to	2	2
	_	fit maximization of		_	_
8		te the cost of cap	0	2	2
		-	cures of face value Rs.100 each and		
			ture. The debentures are redeemable		
		-	um of 10%. Companies paying tax at		
	50%.	, L	r F78 40		
9		different types o	f long-term debt and equity finance.	2	2
10	-		000 and its effective life is estimated	2	2
	to be 6 years . A sinking fund is created for replacing the				
	machine at the end of its effective life time when its scrap				
	realizes	a sum of Rs.20,0	00 only. Calculate the amount which		
	should	be provided, ever	ry year, for sinking fund if it		
	accumu	lates at 8% p.a. c	ompounded annually.		
11	Glamour Ltd. Earned a profit of Rs.20,00,000 before				2
	providing for interest and tax . The company's capital				
	structur	e is as follows:			
	(i) 4	4,00,000 equity sl	nares of Rs.10 each and its market		
	(	capitalization rate	is 16%.		
	(ii) 2	25,000 14% Secur	red redeemable debenture of Rs.150		
	6	each.			
	You are	e required to calcu	alate the value of firm under the 'Net		
		Approach'.			
Q. No.	SECTI		(4x10=40 marks)	CO	KL
		r the following:			
12 (a)			loan of Rs.5,00,000 to construct his	3	3
		- •	e in 12 equal annual installments the		
		~ -	d of first year. The rate of interest		
	chargeable on this loan is @4% p.a. compounded. How much				
	of equal annual installments payable to amortise the said loan.				
	Prepare	amortization tab	le.		
			(OR)		
(b)			32,400. It is expected to generate		
			Rs.14,000 and Rs.12,000 through its		
	three ye	ear life period .Ca	lculate the IRR of the project.		

13 (a)	Calculate the operating cycle of a company which gives the 3 3				
- ()	following details:  Rs.		=	-	
	Raw material consumption	8,42,000			
	per annum	5,12,550			
	Annual cost of production	14,25,000			
	Annual cost of sales	15,30,000			
	Annual sales	19,50,000			
	Average:	1 24 000			
	Raw material	1,24,000			
	Work – in progress	72,000			
	Finished goods	1,22,000			
	Debtors	2,60,000			
	(0	OR)			
<i>a</i> .	The capital structure of Willin	n corporation Ltd . consist of an			
(b)	ordinary share capital of Rs.20	0,00,000 (shares of Rs.100 per			
	value) and Rs.20,00,000 of 10	% debentures. The unit sales			
	increased by 20% from 2,00,0	00 units to 2,40,000 units, the			
	selling price is Rs.10 per unit				
	per unit and fixed expenses an				
	income tax rate is assumed to				
	111001110 11111 11110 1111 111110 1111				
	You required to calculate the f	following:			
	a. The percentage increase in EPS				
	b. The degree of financial leverage at 2,00,000 units and				
	2,40,000 units				
		g leverage at 2,00,000 units and			
	-	g leverage at 2,00,000 units and			
	2,40,000 units				
14 (a)	The company equity shares or	a gurrantly calling at Da 120 per	4	4	
14 (a)		e currently selling at Rs.120 per	4	4	
	share. Dividend paid during the	ie previous years is given			
	below.	<u> </u>			
	Year Rs.	_			
	2011 8.50	_			
	2012 9.01				
	2013 9.55				
	2014 10.12				
	2015 10.73				
	2016 11.38				
	(i) Calculate the growth rate of dividend				
	(ii) Calculate cost of equity (a) if there is no flotation cost				
	(b) if the flotation cost is 3%				
	, , , , , , , , , , , , , , , , , , , ,	(OR)			
(b)	PPP Ltd. Expects a net income of Rs.80,00,000. It has				
	2 crore of 8% debentures. The equity capitalization rate				
	of the company is 10%. You are required to calculate				
		(2) overall capitalization rate			
	according to the Net Ir	· ·			
<u> </u>	according to the Net II	icome Approach.			

15 (a)	An executive is about to retire at age of 60. His employer has offered him two post- retirement options: (i) Rs.20, 00,000 lump sum, (ii) Rs.2, 50,000 for 10 years. Assuming 10% interest, which is better option? Find out the compound interest on Rs.5000 invested for 5 years @ 8% interest compounded quarterly? Find out the present value of Rs.8000 to be received after 6 years at 12% rate of interest? If Arun deposits at the end of each years. 4000, 6000, 9000, 7000, 2000 in SB account at 14% interest. Ascertain the present value of cash flow.			4	4
(b)	(OR) ITC Ltd. has decided to purchase a machine to augment the company's installed capacity to meet the growing demand for products. The relevant details including estimated yearly expenditure and sales are given below. All sales are on cash.			•	
	Corporate Income Tax rate is 4	10%.	36.11		
	Particulars		Machine Do 2 00 000		
	Initial Investment required Estimated Annual sales		Rs.3,00,000 Rs.4,00,000		
	Cost of production (estimat	ed)	KS.4,00,000		
	Direct Labour	.eu)	Rs. 30,000		
	Direct Labour  Direct Material		Rs. 50,000		
	Factory overheads		Rs. 50,000		
	Administrative Costs		Rs. 10,000		
	Selling and Distribution Co	osts	Rs. 10,000		
	Sching and Distribution Costs   Rs. 10,000				
	The economic life of Machine	is 3 year	ars. The scrap value is		
	Rs.25,000. You are required to	•	<u>-</u>		
Q. No.	SECTION D		(2x15=30 marks)	CO	KL
	Answer any two questions:				
16	Prepare an estimate of working capital requirement for WCM Ltd. Adding 10% for contingencies from the information given below: Estimated cost per unit of production Rs.170 includes raw material Rs.80, Direct Labour Rs.30 and overheads (exclusive of depreciation) Rs.60. Selling price is Rs.200 per unit. Level of activity per annum 1,04,000 units  Raw material in stock 4 weeks  Work -in progress (assume 2 weeks 50% completion stage)  Finished goods in stock 4 weeks  Credit allowed by suppliers 4 weeks			5	5
	Credit allowed to debtors 8 weeks  Lag in payment of wages 1.5 weeks				
	Lag in payment of wages 1.5 weeks				
				1	

17	You are required to determine the weighted average cost			5
	capital of the K.C. Ltd using (i) Book Value weights;			
	(ii) market value weights . The following information is			
	available for your persual. The K.C.Ltd's present book value			
	capital structure is:			
	Debentures (Rs.100 per debenture) Rs.8,00,000  Preference shares (Rs. 100 per share) Rs.2,00,000			
	Preference shares (Rs. 100 per share) Rs.2,00			
	Equity Shares (Rs.10 per share) Rs.10,0	0,000		
	All these securities are traded in the capital markets. Re			
	prices are debentures @Rs.110, preference shares @Rs.120			
	and equity shares @ Rs.22. Anticipated external financ	ıng		
	opportunities are :			
	(i) Rs.100 per debenture redeemable at par: 20-	•		
	maturity, 8% Coupon rate, 4% flotation cost price Rs.100.	s, sale		
	(ii) Rs.100 preference share redeemable at par:	15_		
	1			
	year maturity, 10% dividend rate, 5% flotation cost, sale price Rs.100.			
	(iii) Equity shares Rs.2 per flotation costs, sale price			
	Rs.22.			
	In addition, the dividend expected on the equity share at the			
	end of the year Rs.2 per share, the anticipated growth rate in			
	dividend is 5% and the company has the practice of pay			
	all its earnings in the form of dividends. The corporate			
	rate is 50%.			
18	A project is in the consideration of a firm. The initial of	-	5	5
	of the project is Rs.1,00,000 and have a life of five year			
	company pays tax rate at 50% rate and the maximum re	-		
	rate of the company has been given as 10%. The straigh			
	method of depreciation will be charged on the projects. The			
	projects are expected to generate a net cash inflow before			
	taxes as follows:			
	Year Project X			
	1 Rs.60,000			
	2 Rs.30,000			
	3 Rs.20,000			
	4 Rs.50,000			
	5 Rs.50,000			
	With the help of above give information you are require	ed to		
	calculate:			
	(a) Pay- back period			
	(b) Average rate of return			
	(c) NPV and profitability index			
	(d) IRR			
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