

Birla Institute of Management Technology

PGDM Batch 2014-16

Corporate Finance

DM 303

Trimester – III, End-Term Examination: April 2015

Time allowed: 2 hrs 30 min

Max Marks: 50

Roll No: _____

Instruction: Students are required to write Roll No on every page of the question paper, writing anything except the Roll No will be treated as **Unfair Means**. In case of rough work please use answer sheet.

Sections	No. of Questions to attempt	Marks	Marks
A	3 out of 5 (Short Questions)	5 Marks each	3*5 = 15
B	2 out of 3 (Long Questions)	10 Marks each	2*10 = 20
C	Compulsory Case Study	15 Marks	15
		Total Marks	50

Section A

A1) X deposits Rs 1000000 at the beginning of year 1 and 3 and Rs 100,000 at the end of each of the years 2, 4, 5. Find the discounted value of the investments at the end of year 3 with the discount rate of 10%.

A2) The following information is related to Sunrise Ltd.:

	(Rs)
Sales	400000
Less Variable Expenses 35%	140000
Contribution	260000
Less Fixed Expenses	180000
EBIT	80000
Less Interest	10000
Taxable Income	70000

If the sales will increase by 6%, what will be the impact on taxable income? What will you conclude from this?

A3) Explain the problems with IRR as a method of Capital Budgeting with help of suitable example/s.

A4) Capital Asset Pricing Model (CAPM) / Security Market Line is a tool to work out cost of equity. Explain?

A5) During the second year of operation, SIL has experienced a stochastic demand for its product. The Miller and Orr model is the simplest model to determine the optimal behavior in irregular cash flows situation. There are two control limits. Upper Limit (U) and lower limit (L). Explain with the graphical pictorial presentation about the significance of upper limit of Rs. 220000/- and lower limit of Rs. 40000/- What is the return point in this case?

OR

A5) Normally an uncertainty is present in cash budget. What are the reasons and how this can be taken care of?

Section B

B1 The capital structure of a company is as under

Equity Shares at Rs 10/- each	Rs100,00,000
9% Preference Shares @ Rs 100 each	Rs 30,00,000
14% Debentures @Rs 100 each	Rs 70,00,000

The Market Price of the securities are:

Equity Shares	Rs 35 per share
Preference Shares	Rs 120 per share
Debentures	Rs 110 per debenture

Other information's are

- Equity Shares have floatation cost of Rs5 per share. The next years expected dividend is Rs 3 with the annual growth of 5%. The company pays all the earning in form of dividends.
- Preference Shares are redeemable at a premium of 10% , have 2% floatation cost and 10 years to maturity.
- Debentures are redeemable at a par , 4% floatation cost and 10 years to maturity
- Corporate Tax rate is 30%

Calculate the weighted average cost of capital using book value and market value weights ?

B2) Global Enterprises Ltd. is a manufacturer of high quality running shoes. Ms. Vanita, President, is considering computerizing the company's ordering, inventory and billing procedures. She estimates that the annual savings from computerization include a reduction of ten clerical employees with annual

salaries of 40,000 each, 75,000 from reduced production delays caused by raw materials inventory problems, 80,000 from lost sales due to inventor stock-outs and 25,000 associated with timely billing procedures. The purchase price of the system is 5,00,000 and installation costs are 50,000. These outlays will be depreciated on straight-line basis to a 1,50,000 salvage value which is also its market value at the end of five years. Operation of the new system requires two computer specialists with annual salaries of 1,20,000 per person. Also, annual maintenance and operating cash expenses of 1,50,000 are estimated to be incurred. The company's tax rate is 30% and its required rate of return (cost of capital) for the project is 12%.

You are required to —

- (i) Find the project's initial cash outlay.
- (ii) Find the project's after tax profits and cash flows over its 5 year life.
- (iii) Evaluate the project using net present value (NPV) method.
- (iv) Evaluate the project using profitability index (PI) method.
- (v) Calculate the project's payback period

B3 The current dividend on an equity share of Growth Limited is ₹5.00. Growth Limited is expected to enjoy an above-normal growth rate of 30 percent for a period of 6 years thereafter the growth rate will fall and would be 20 percent for next 5 years at last it would stabilise at 10 percent. Equity investors require a minimum return of 15 percent. What is the intrinsic value of the equity share of Growth Limited?

OR

B3) Explain the factors considered while determining the need for working capital?

Section C (15 Marks)

The management of Tripsy Food Products Limited has called for a statement showing working capital needed to finance a level of activity of 300000 units of out put for the year. The cost structure of the company's product, for the above activity level is detailed below:s

Particulars	Cost per unit
Raw materials	20
Manufacturing Expenses	5
Other overheads	15
Total cost	40
Profit	10
Selling Price	50

SPast trends indicate the following:

- i. Raw Materials are held in stock for 2 months;
- ii. Work-in-progress will be approximate to half a month's production;
- iii. Finished goods remain in the warehouse for a month;
- iv. Two months' credit is normally allowed to customers;
- v. Manufacturing Expenses are expected to occur evenly during the year.

You are required calculate the investment in various current assets including a cash balance of 5% of Gross Working Capital. Your calculations & answers should be rounded off to Rupees in lakhs.

