Name: Enrolment No:



UNIVERSITY WITH A PURPOSE

UNIVERSITY OF PETROLEUM & ENERGY STUDIES End Semester Examination – Dec , 2021

Program: MA Economics Subject/Course: Corporate Finance Course Code: FINC8035P

Semester : III Max. Marks: 100 Duration : 3 Hours

| | Section A Each question carries 2 marks. | | |
|---------|--|--------------------|-----|
| S No | Questions: | 10Qx2M=20 Marks | CO |
| Q1 | TXC ltd. has the operating income of Rs.1,00,000, cost of debt 10% and the outstanding debt is Rs.8,00,000. If the Equity Capitalization rate is 10%. The value of the firm as per Net Income Approach would be a. Rs.2,00,000 b. Rs. 6,00,000 c. Rs.3,00,000 d. Rs. 6,00,000 | 2 | CO1 |
| Q2 | d. Rs.6,50,000Kd and Ke are constant with change in capital structure. This is the proposition of | 2 | CO1 |
| | a. Net Operating Income Approach b. Net Income Approach c. MM Approach d. Walter Approach | | |
| Q3 | Define Ke ? | 2 | COI |
| Q4 | The effective rate of interest for a nominal rate of interest of 6 per cent per annum compounded quarterly works out to: a. 6.24 per cent per annum b. 6.14 per cent per annum c. 6.04 per cent per annum d. 6.34 per cent per annum | 2 | CO1 |
| Q5 | Differentiate Systematic and Unsystematic Risk? | 2 | CO1 |
| Q6 | PV of Rupee (Using Formula) is | 2 | CO1 |
| Q7 | Define Agency Problem? | 2 | CO |
| Q8 | Differentiate Gross and Net Working Capital? | 2 | CO |
| Q9 | Define FINTECH? | 2 | COI |
| Q10 | Describe Security Market line? | 2 | CO |

| | 1. Each question ca 2. Instructions: Wr | | ion B | 4Qx5M= 20 Marks | |
|----|--|---|--|--------------------|-----|
| Q1 | - | 1 1 | a firm with a positive NPV investment; which | 5 | CO2 |
| Q2 | The mega saving yojana deposit is remitted and the rate of Interest is quarterly | of SBI for rural bra he principal is rece y compounded. | nance it with debt or equity? nches is open to public. A lump sum ived with interest at the rate of 15% p.a. and ont Value) to receive a monthly installment of | 5 | CO2 |
| | Rs. 400 for 12 months? | | | | |
| Q3 | Analyze Pay Back Period | and ARR with exa | ample? | 5 | CO3 |
| Q4 | | er annum . Calculat | ual annual installments. If the load carries a the amount of each Yearly Installment and | 5 | CO3 |
| | Show all the steps | Each Question | ion C carries 10 marks. equired values until four decimal places. | 3Qx10M=30 Marks | |
| Q1 | While preparing a project report on behalf of a client, the following information pertaining to Client (N Ltd.) is collected. You are required to estimate the net working capital. Add 10% to the computed figure to allow for contingencies. Cost per unit in Rs. | | | 10 | |
| | | Raw Material | | | |
| | | Direct Labour | 150 | | |
| | | Overheads | 50 | | |
| | | Total Cost | 300 | | |
| | Additional information | | | | |
| | Selling Price | |) per unit | | |
| | Level of Activity | 1,00,0 | 00 units per annum | | |
| | Raw Material in st | ock Ave | erage 6 weeks | | |
| | Works – in – Proce | <u>ر</u> | ge 2 weeks | | |
| | (Assume 50% completion respect of materials) | n stage in respect of | f conversion costs and 100 % completion in | | |
| | Finished goods in s | | Average 4 weeks | | |
| | Credit allowed by s | | Average 2 weeks | | |
| | Credit allowed to d | | Average 4 weeks | | |
| | Lag in payment of | • | Average 2 weeks | | |
| | Lag (Delay) in pay | | Average 3 weeks | | |
| | Cash at bank is exp | | Rs. 4, 00, 000 enly throughout during the 52 weeks of the | | |
| | Assume that production 1 | is carried out on eve | my unoughout during the 52 weeks of the | | |

| 2 | discount rate | | addity index of the follo | owing cash flows with the | 10 | CO3 |
|---|------------------------------|--|---|----------------------------|----|-----|
| | | Year | Cash Flows | 7 | | |
| | | 1 | Rs. 5,000 | - | | |
| | | 2 | Rs. 6,000 | - | | |
| | | 3 | Rs. 4,000 | - | | |
| | | 4 | Rs. 7,000 | - | | |
| | | 5 | Rs. 10,000 | - | | |
| 3 | The followin | g information of Recon. I | Ltd is available to you fo | r your perusal: | 10 | CO |
| | The r | present book value capital | structure is as follows: | | | |
| | | | | 4 00 000 | | |
| | | | . , | 4,00,000 8,00,000 | | |
| | | | - | 5 00,000 | | |
| | | rve and Surplus | | 0,00,000 | | |
| | Loan | S | Rs. 1 | 2,00,000 | | |
| | Antic | cipated external financing | opportunities are: | | | |
| | i. | - | ± • • | r maturity,11% coupon rate | | |
| | | 5% flotation cost, Issue | | 10 | | |
| | ii. | - | | par: 10 years maturity, 5% | | |
| | iii. | flotation cost, Issued at | primary market is Rs 40 |) | | |
| | iv. | Loan- Interest Rate is 9 | |) | | |
| | share; the an paying all its | ticipated growth rate in di earnings in the form of d | vidends is 10% and the oividends. The corporate | | | |
| | You are required weights | uired to analyze the weig | shted average cost of ca | pital using the book value | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

| Section D | 2Qx15M= 30 Marks |
|--|---------------------|
| Read the case and Answer the following questions: | |
| | |
| TLZ, Inc. a public company, has decided to acquire Shang-wa, a Korean based company that manufactures capacitors in a vertical integration. The CEO of TLZ has convinced the shareholders that this move is a necessary one to avoid the takeover of Shang-wa by one of TLZ's competitors, Transnational Electronics Corporation (TEC). Shang-wa has historically represented 43% of TLZ's revenue stream. As result of the Board's approval to move forward with the acquisition, TLZ must determine which financing alternatives they wish to use to complete the acquisition. The benchmark studies included in this document illustrate several pertinent alternatives to be considered. They include reviewing the financing mix that will optimize the capital structure of the new firm; the weighted average cost of capital considerations in financing; evaluating a dividend policy; and analyzing the risks associated with various financing considerations such as executive stock options and | |
| conducting an IPO. Recommend a Financing Mix that Optimizes Capital Structures There are many methods | |
| for a business to raise needed funds. Typically a firm is not financed 100% by debt. The balance of debt and equity is one of the most basic and important financing questions to be addressed by any business. Use of stocks and bonds as financing options can play an integral part of any organization. These programs become a significant part of a company's capital structure and an important part of business valuation from future investors. As | |
| companies expand business capital needs increase for some period to cover costs. The need for any increase in capital can place pressure on a company's overall capital structure. Lester Electronics is now facing these same issues as they attempt to secure financing | |
| alternatives. TLZ must find a financing mix that allows for optimization of capital structure. One of the included case studies, Domino's, highlights how the use of stock options in a repurchase option, reclaimed 13.9 million shares of common stock which eventually led to a share price increase of 11% for Dominos. The use of bonds, another | |
| option within a financing mix optimization, is illustrated in the case study related to Cingular. This study illustrates how the use of a combination of issuing bonds along with other financial strategies accomplished the funding that Cingular required to complete a merger successfully. Flowserve, in their acquisition of Ingersoll Dresser Pumps, demonstrates the importance of balancing debt and equity. In this example, a heavy debt load stressed the company's ability to meet payments when the market contracted | |
| unexpectedly Evaluate Dividend Policy on Wealth Maximization Research conducted in 2005 speaks to the fact the firms have historically paid out about 40% of their net income as cash dividends or have chosen the route of stock repurchase programs which also has accounted for about 40% of their net income (Ross, et. al, 2005). TLZ (pre-merger) was in the group of firms that paid out large dividends to shareholders. | |
| With the merger, however; the lack of cash is going to potentially put a damper on | |

With the merger, however; the lack of cash is going to potentially put a damper on continued dividend payment without external financing. Ross, et al (2005) indicates that a firm should never use financing just to pay a dividend. The signaling effect of not issuing a dividend when they have been issued historically may cause a share price drop in the market. The case studies show various approaches to address dividends. First State

Investments had success with a high dividend policy; Hitachi illustrates a decision to switch from a dividend payout to a stock repurchase program and finally, Colonial Properties Trust/Conversion Realty Income Trust, Inc. which prioritized continuing the existing dividend payout rate post merger. Determine the Weighted Average Cost of Capital According to Ross et al. (2005), certain situations require different project valuation methods. The benchmark case to address the valuation of a project based on the weighted average cost of capital is illustrated in the merger between Exxon and Mobil. In this case the weighted average cost of capital was preferable to the adjusted present value or flow-to-equity methods. The WACC method is based on the assumption that a levered firm will finance a project with both debt and equity, and is preferred "if the firm's target debt-to-value ratio applies to the project over its life" (Ross et al., 2005, p. 483). TLZ can use this same methodology in determining how best to fund this acquisition.

In order to determine a firm's ability to absorb the risk of a new venture or project, the firm must analyze its beta and leverage status. The case study on Citigroup (the company created by the merger of Travelers Group and Citibank) provides an example of a low-leverage company's ability to assume risk, thereby allowing greater potential for the firm's projects to maximize shareholder wealth. As TLZ is also a low leverage company pre-merger they should also consider the affect of this merger considering their beta in relation to their debt to equity ratio. Analyze Risks Associated with Investment Decisions. All financial decisions typically imply some kind of risk. Decisions surrounding capital structure are no different. Whether TLZ decides to use debt or equity to finance the acquisition should be evaluated with due diligence. Some risks with equity include the lack of tax shields; dilution; costs of issuing securities; and not maximizing the net present value of potential projects. The risks of debt include costs of financial distress such as bankruptcy, agent risk; increased return expectations of shareholders; and increased discount rates of lenders if too much debt is incurred. As a result, TLZ along with other firms will want to optimize risk regardless of which investment security they choose. One option to minimize the equity risk of dilution and project maximization is to choose executive stock options as an internal means to increase equity. While this is currently receiving bad press as a result of a process called backdating (McCullagh, 2006) overall this program can work if the covenants around the option program are tight. The case study included in this discussion highlights various clauses that can be used in the design of a stock option program. These companies include such notable firms as Bristol Myers Squibb and W.W. Grainger. These clauses have been designed to safeguard the issuing of stock against the use of individual wealth versus increasing firm value. Another investment decision that TLZ needs to consider is whether or not they wish to offer an IPO or Initial Public Offering to take the newly created merged firm, public. Valuing a start-up most often implies a company that is not already public. There is opportunity for TLZ to offer the merging of the two companies as a start up though in theory. The market for IPOs seems to be improving though research is still projecting a cautious outlook (BusinessWeek, 2006). As an alternative consideration, TLZ should consider initiating a public offer overseas. Included in this discussion as a benchmark is a case where a start up chose to list on the Japanese markup versus the US market. TLZ could consider that in the US they are a strong equity driven firm with little assets. They are acquiring a firm with many more assets that are probably backed by Korean investors. As a result, offering an IPO within Korea may generate a higher return than in the US. TLZ should as well list in the US secondary markets to attract US investors.

There are many methods for a business to raise its required funds; clearly, no firm is

| | financed 100% by debt. This leads on of the most basic most basic options linked to stocks. Stock options can play an integral part programs become a significant part of a company's capital struc of business valuation from future investors. As companies exp increase for some period to cover costs. The need for any inc pressure on a company's overall capital structure. Lester Elect same issues as they attempt to secure financing alternatives. TL2 that allows for optimization of capital structure. Domino's also n financing methods to generate additional capital while redu responded by taking on a venture to repurchase outstanding announced their plan reclaim 13.9 million shares of common s was designed to help finance future securities and payoff cur benefit not only the business but also the investors as the busine in itself by using its own cash to buy back outstanding shares very good news for a shareholders or investor because there v market which leads to less claims on the earnings of the com dividends that will be paid in the future After this announcement "Domino's shares rose 11 percent, or \$3.10078, to \$31.88 in the normal volume on the New York Stock Exchange. The stock cl The stock has traded between \$21.01 and \$29.10 in the past provides a good example of using a stocking repurchasing as | of any organization cture and an importa- pand business capital crease in capital can tronics is now facing Z must find a financi- needed to look at alter ucing debt. This bu- shares of stock. Do stock (AP 2006). The rent debt. This opti- esses is ultimately in- of stock. This is ge- will be fewer shares npany as there is no nt according the (AF trading nearly 10 tin limbed to a record, a 52 weeks". This co | These ant part l needs n place g these ng mix rnative usiness ominos iis plan on can vesting nerally on the ow less P 2006) mes its as well. | |
|----------|---|--|---|-----|
| | reduce long term debt. Dominos has shown it was able to meet to which is to maximize return for shareholders and improve its Lester Electronics should consider this alternative as it has series minimizing outstanding debt as it generates net proceeds. | financial ratios long | g term. | |
| Q1 | reduce long term debt. Dominos has shown it was able to meet to which is to maximize return for shareholders and improve its Lester Electronics should consider this alternative as it has series minimizing outstanding debt as it generates net proceeds. (a): Briefly Analyze and Integrate the case | financial ratios long | g term. | CO4 |
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| Q1 Q2 | reduce long term debt. Dominos has shown it was able to meet to which is to maximize return for shareholders and improve its Lester Electronics should consider this alternative as it has serior minimizing outstanding debt as it generates net proceeds. (a): Briefly Analyze and Integrate the case (b): How LEI, Inc. a public company can evaluate Shang-wa, a Korean based company? | financial ratios long ious benefits in add 5 Marks 5 Marks | g term. ition to 15 | CO4 |
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| | reduce long term debt. Dominos has shown it was able to meet to which is to maximize return for shareholders and improve its Lester Electronics should consider this alternative as it has serior minimizing outstanding debt as it generates net proceeds. (a): Briefly Analyze and Integrate the case (b): How LEI, Inc. a public company can evaluate Shang-wa, a Korean based company? (c) What are the financial strategies, which LEI can use? (a): How WACC can be assessed? | financial ratios long ious benefits in add 5 Marks 5 Marks 5 Marks 5 Marks EI? 5 Marks in trading nearly 10 k climbed to a record | g term. ition to 15 ks 15 rks times | |