| Name: <br> Enrolment No: | UPES |
| :--- | :--- |

## UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2019
Course: MBA- (O\&G) / Energy Trading (Financial Management)
Semester: II
Course Code: FINC 7013/ FINC 7014
Programme: MBA OIL \& GAS / ENERGY TRADING

Time: 03 Hours
Instructions:

ATTEMP ALL QUESTIONS SECTION A (Short Theory)

Max. Marks: 100
40 Marks

|  |  | $\mathbf{M}$ <br> $\mathbf{a r}$ <br> $\mathbf{k s}$ | $\mathbf{C O}$ |
| :---: | :--- | :---: | :---: |
| Q1 <br> $\cdot$ | Differentiate between the Profit Maximization and Wealth Maximization Objective of Financial <br> Management? | $\mathbf{1 0}$ | $\mathbf{C O 1}$ |
| Q2 | What are the important determinants of Working Capital Management? | $\mathbf{1 0}$ | $\mathbf{C O 1}$ |
| Q3 <br> $\cdot$ | What can one calculate with the help of 'Rule of 72' and 'Rule of 69'? Explain with <br> Illustration. | $\mathbf{1 0}$ | $\mathbf{C O 2}$ |
| Q4 <br> $\cdot$ | Mr. S. Presently having age of 26. His monthly expenditure is Rs.20000. He wants to <br> get retire at the age of 62. The current and expected rate of inflation is 6\%. Calculate <br> roughly at the age of 62 What would be his monthly Expenditure. | $\mathbf{1 0}$ | $\mathbf{C O 1}$ |
|  |  |  |  |

SECTION B (Long Numerical)
30 Marks

| $\begin{aligned} & \mathrm{Q} \\ & 5 \end{aligned}$ | PQR \& Co. has the following capital structure as on Dec. 31, 2011. |  |
| :---: | :---: | :---: |
|  | Equity Share Capital (5000 shares of rs. 100 each) | 500000 |
|  | 9\% Preference Shares | 200000 |
|  | 10\% debenture | 300000 |

The equity shares of the company are quoted at Rs. 102 and the company is expected to declare a dividend of Rs. 9 per share for the next year. The company has registered a dividend growth rate of $5 \%$ which is expected to be maintained.
(i) Assuming the tax rate applicable to the company at $30 \%$, calculate the WACC.
(ii) Assuming that the company can raise additional term loan at $12 \%$ for Rs. 500000 to finance its expansion, calculate the revised WACC. The company's expectation is that the business risk associated with new financing may bring down the market price from Rs. 102 to Rs. 96 per share.

Q The board of directors of Nanak Engineering Company Private Ltd requested you to prepare a statement showing the working capital requirements for a level of activity at 1,56,000 units of production.
The following information is available for your calculation:
Per unit cost
(A) Raw material Rs 90

Direct labour 40
Overheads 75
Total 205
Profit 60
Selling price per unit 265
$10 \quad \mathrm{CO2}, 3$
(B) (1) Raw materials are in stock, on average one month.
(2) Materials are in progress, on average 2 weeks.
(3) Finished goods are in stock, on average one month.
(4) Credit allowed by suppliers, one month.
(5) Time lag in payment from debtors, 2 month.
(6) Average time-Lag in payment of wages, 1.5 weeks.
(7) Average time-lag in payment of overheads is one month.

Twenty percent of the output is sold against cash. Cash in hand at bank is expected to be Rs 60,000 . It is to be assumed that production is carried on evenly throughout the year; wages and overheads accrue similarly and a time period of 4 weeks is equivalent to a month.

Q The following is the Income Statement of XYZ Ltd. For the Year 2011.

| Sales | 50 |
| :--- | :--- |
| Less: Variable cost | 10 |
| Less: Fixed Cost | 20 |
| EBIT | 20 |
| Less: Interest | 5 |
| Profit before Tax | 15 |
| Less: Tax @ 40\% | 6 |
| Profit after Tax | 9 |
| Less: Preference dividend | 1 |
| Profit for equity <br> shareholders | 8 |

The company has 4 lakhs equity shares issued to the shareholders. Find out the degree of operating, financial and combined leverage. What would be the EPS if the Sales level increases by $10 \%$ ?




## SECTION-C (Long Numerical)

|  |  | $\begin{aligned} & \hline \mathbf{M a} \\ & \text { rks } \end{aligned}$ | CO |
| :---: | :---: | :---: | :---: |
| Q8. | The initial investment outlay for a capital investment project consists of Rs. 100lakhs for plant And machinery and Rs. 40 lakhs for working capital. Otherdetails are summarized below :Output 1 lakh units of output per year for years 1 to 5Selling priceRs. 120 per unit of outputVariable costRs. 60 per unit of outputFixed overheads (excluding depreciation)Rs. 15 lakhs per year for years 1 to 5Rate of depreciation on plant and machinery $25 \%$ on WDV methodSalvage value of plant and machinery Equal to the WDV at the end of year 5Applicable tax rate $40 \%$Time horizon5 yearsPost-tax cut off rate12\% $\quad$Year 1 2 3 0.5 <br> P.V. Factor 0.892857 0.797194 0.71178 0.635518 <br> Required : <br> Indicate the financial viability of the project by calculating the net present     <br> value   0.567427  | 15 | CO4,5 |
| Q9 | The following data are available for the Broadway and Midway companies: <br> Required: | 15 | CO4,5 |


| 1. Calculate the Return on Equity, Degree of Operating Leverage, Degree of Financial <br> Leverage, Degree of Combined leverage <br> 2. As a financial analyst which of two companies would you describe as more risky? |  |  |
| :--- | :--- | :--- | :--- |
|  |  |  |

