CVL	775	CONSTRUCTION	MAJOR EXA	MINATION
Time allowed 1.5 hours	1:00 - 2:30 PM	ECONOMICS AND FINANCE	Maximum Marks	40
Venue	LH 310		Date	05.05.2016

ANSWER ALL QUESTIONS. ASSUME MISSING DATA SUITABLY IF REQUIRED.

Q1 7 marks

A construction company has identified four mutually exclusive investment proposals. The details of the four proposals are given in the following table. Use 8% as the minimum attractive rate of return post tax. Use straight line method of depreciation and tax rate 40%. Find the best alternative based on the incremental analysis. Given (P/A, 8%,5)=3,9927

Scheme	Initial	Annual	Life	Salvage
	cost (Rs.)	Return (Rs.)	(Year)	value (Rs.)
A	150,000	45,000	5	0
В	200,000	60,000	5	0
C	250.000	75,000	5	0
D	300,000	80,000	5	0

Q2 7 marks

Consider the following two alternatives

	Alternative 1	Alternative 2
First cost	1000,000	800,000
Annual expense	250,000	150,000
Annual income	575,000	575,000
Salvage value	200,000	0
Economic life	8 years	4 years

Suppose that the salvage value of alternative 2 is known with certainty. By how much would the estimate of salvage value for alternative 1 have to vary so that the initial decision based on the data above would be reversed? The minimum acceptable rate of return is 15 percent.

Also develop a family of curves showing variation in present worth as a function of annual expenses for different values of economic life for alternative 1.

(P/A, 15%, 8) = 4.4873, (P/F, 15%, 8) = 0.3269, (P/F, 15%, 4) = 0.5718

Q3 4X2=8 marks

(A) For the set of data given in the following table calculate the revenue using the following methods of revenue recognition: (1) Cash method of revenue recognition (2) Straight Accrual Method of Revenue recognition (3) Completed contract method of revenue recognition and (4) Percentage of completion method of revenue recognition

SI.	Table: Data set	recognition
No.	Description	Amount in \$
1	Contract amount	1000 000
2	Original	1000,000
3	Original estimated cost	900,000
4	Theu to date	700,000
5	Payments received to date	630,000
6	costs incurred to date	450,000
7	Forecasted costs to complete	400,000
	Costs paid to date	400,000

(B)
The following table shows inter firm comparison of construction companies. Calculate the current ratio and the net working capital for each of the companies and comment on them.

Table: Inter firm comparison					
Particulars	ECC	Gam	HCC	NCC	
TY 1: 11 11 11 11 11 11 11 11 11 11 11 11		mon			
Working capital as % of sales	28.94%	6.30%	27.33%	28.26%	
Unadjusted advance	560	174	169	29	
Unadjusted advance as % of backlog	6.28%	6.09%	5.05%	2.54%	
Gross Current Assets	2704	442	539	256	
Gross Current Assets as a % of sales	70.18%	56.81%	79.62%	56.51%	
Total Liabilities and Provisions	1589	392	354	128	
Total Liabilities and Provisions as a % of sales	41.24%	50.39%	52.29%	28.26%	
Current Ratio					
Net Working capital					

Q4 4X2 = 8 marks

From the following transactions details of a construction company M/s New Construction Limited, Fill in the blanks in the profit and loss account and Balance Sheet. Assume all transactions to be the cash transactions. Also assume depreciation of machinery to be zero in this financial year.

Table: Transaction details of M/s New Construction Company

ransac	Reference	Description
	Tı	Purchased materials for Rs. 6566/-
	T ₂	Paid salaries Rs. 668/-
	T ₃	Paid for telephone charges Rs. 1691/-
	T ₄	Interest on loan paid Rs. 177/-
	Ts	Tax paid Rs.77/-
	Te	Sold goods for Rs. 9614/-
	T7	Borrowed loan from Citibank Rs. 3176/-
	T ₈	Purchased machinery for Rs. 3176/-

Profit And Loss Account

Balance Sheet

Particulars Sources of Funds	Amount in Rs.
Reserves and Surplus	
Loan	
Total	
Usage of Funds	
Fixed Assets	
Cash and Bank Balances	
Total Total	

In order to increase the production of a precast concrete manufacturing plant, a new and fully equipped factory is and fully equipped factory is required at an estimated cost of Rs. 45 Lakhs. This is expected to increase the true expected to increase the turnover of the company to Rs 200 Lakhs per annumbroken down as 40% materials. broken down as 40% materials, 35% wages and other production costs, 15% administration, the remaining 10% administration, the remaining 10% representing profit. On an average the concrete unit takes two weeks to profit the concrete unit takes two weeks to profit the concrete unit takes to be a concrete unit takes. unit takes two weeks to produce, after which they are put into store until fully cured and ready for sale. cured and ready for sale. The average period between completion of manufacture and sale is two months. and sale is two months, and two month's credit is allowed for customers. Three months' supply of raw which months' supply of raw materials will be kept in stock at all times, for which suppliers allow one and a half months' credit. From the above data.

(a) determine the working capital required to start the new business

(b) determine the working capital to finance the normal transactions.

0.5 x 10=5 marks Q6

- (i) Net working capital means
 - a. Current assets Current liabilities
 - b. Fixed assets Fixed liabilities
 - c. Current assets Non tangible assets
- (ii) An aggressive approach to current asset financing leads to
 - a. Greater profitability
 - b. Lower profitability
 - c. No impact on profitability
- (iii) The longer the operating cycle
 - a. The larger the size of current assets
 - b. The smaller the size of current assets
 - c. The size of current assets remain unchanged
- (iv) Mortgage involves
 - a. Moveables as collateral
 - b. Immovables as collateral
 - c. No collateral
- (v) Commercial paper is issued by
 - a. Any company
 - b. Only blue-chip companies
 - c. Only Government companies
- Retained earning is liability. True or False (vi)
- Goodwill is tangible asset. True or False (vii)
- Factoring and Forfaiting are sources of long term finance. True or (viii) False
- T-account is also called Ledger. True or False (ix)
- Outstanding is part of current liability. True or False (x)