# CHAPTER 2 INVESTMENT DECISIONS: CAPITAL BUDGETING

TIME VALUE OF MONEY

PLANNING&CONTROL OF CAPITAL EXPENDITURE

CAPITAL BUDGETING PROCESS

TECHNIQUES OF CAPITAL BUDGETING

CHOICE OF METHODS

CAPITAL RATIONING

RISK EVALUATION & SENSITIVITY ANALYSIS

SIMULATION FOR RISK ANALYSIS

INFLATION, UNCERTAINTY & EVALUATION USING STATISTICAL DECISION THEORY

ANALYSIS OF CAPITAL BUDGETING, DECISIONS AND CASE STUDIES

"Capital Budgeting is long term planning for making and financing proposed capital outlays"

- Charles T. Horngreen

#### TIME VALUE OF MONEY

Money has a "time value." That is to say that money in hand today is worth more than same amount of money received in the future because of four primary reasons

Presence of positive rates of inflation which reduce the purchasing power of rupees through time. Future values are in some sense only promises, and contain some uncertainty about their occurrence. As a result of the risk of default or non-performance of an investment, a rupee in hand today is worth more than an expected rupee in

the future.

The opportunity cost of lost earnings that it could have earned a return between today and a point in time in the future.

Finally, human preferences typically involve impatience, or the preference to consume goods and services now rather than in the future.

#### CAPITAL BUDETING

#### **DEFINITIONS**

- •Charles T. Horngreen,- "Capital budgeting is a long-term planning for making and financing proposed capital outlays".
- •G. C. Philippatos, "Capital budgeting is concerned with the allocation of the firms source financial resources among the available opportunities".
- •Richard and Green law,- "Capital budgeting is acquiring inputs with long-term return"
- **Lyrich**, -"Capital budgeting consists of planning development of available capital for the purpose of maximizing the long-
- ·term profitability of the concern".

#### CAPITAL BUDGETING-PLANNING AND CONTROL OF CAPITAL EXPENSES

Capital budgeting is "firm's formal process for acquisition and investment of capital." The basic feature of capital budgeting decisions are;

 current funds are exchanged for future benefits: (2) there is an investment in long-term activities; and

(3) the future benefits will occur to the firm over series of years

#### NEED FOR CAPITAL INVESTMENT

The following factors give rise to the need for capital investments:

- (a) Wear and tear of old Equipments
  - (b) Obsolescence
- (c) Variation in product demand necessitating change in volume of production.
- (d) Product improvement requiring capital additions.
- (e) Learning-curve effect.
- (f) Expansion.
- (g) Change of plant site.
- (h) Diversification.
- (i) Productivity improvement.

Short Run & Long run Market

Cash flow Budget

Non-economic factors

forecast

Fiscal incentives like Tax savings, depreciation allowance

#### IMPORTANCE OF CAPITAL BUDGETING

A capital budgeting decision should be made wisely beacuse:

- It has long-term Implications:
- Involvement of large amount of funds:
- Irreversible decisions
- Risk and uncertainty:
- Difficult to make:

#### FACTORS INFLUENCING INVESTMENT DECISION

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22

#### RATIONALE / BENEFITS OF CAPITAL BUDGETING DECISION

## Investment decisions affecting revenue

·Tactical investment decisions: Small amount of funds and does not constitute a major departure from past.

## Investment decisions reducing costs

·Strategic investment decisions: Major departure from pasat and likely to lead to evaluation of the company.

#### KINDS OF CAPITAL BUDGETING DECISION

- (i) Accept-reject decisions: Business firm is confronted with alternative investment proposals. If the proposal is accepted, the firm incur the investment and not otherwise
- (ii) Mutually exclusive decisions: It includes projects which compete with each other in a way that acceptance of one precludes others.
- (iii) Capital rationing decisions: It is concerned with the selection of a group of investment out of many investment proposals ranked in the descending order of the rate of return, as the company has limited funds to invest

#### PLANNING OF CAPITAL EXPENDITURE

- > As regards long-term plan budget, the period covered under the planning is three to five or more years.
- > As regards short-period Capital budgeting, period covered within one or two years. Shortterm capital expenditure plan is known as operating budget and is concerned with revenues and expenses related to firms daily operations. The most important factor is the rate of change in technology in the industry.

#### CAPITAL BUDGETING PROCESS

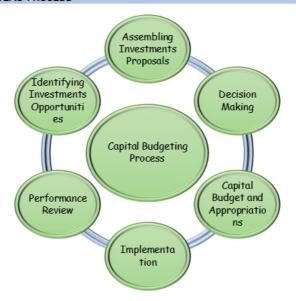
Planning and control are inter-linked and consecutive steps. Control assess the divergences between the expected and achieved results.

It may be recalled that capital expenditure is classified into three main forms viz.:

- (1) expenditure made to reduce costs;
- (2) expenditure made to increase revenue;
- (3) expenditure which is justified on

non-economic grounds.

#### CAPITAL BUDGETING PROCESS



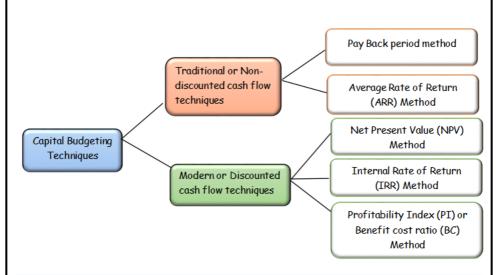
#### INVESTMENT CRITERIA

A sound investment criterion at least should provide the following:

- A means of distinguishing between acceptable and nonacceptable projects;
- 2. Ranking of projects in order of their desirability;
- Choice among several alternatives;

- 4. A criteria which is applicable to any conceivable investment project independent of others;
- 5. Recognising the fact that the bigger benefits are preferable to smaller one and early benefits are preferable to later benefits;
- 6. Helping to choose among mutually exclusive projects, one which maximises the shareholders wealth.

## CAPITAL BUDGETING TECHNIQUES



## Traditional or Non - Discounted Cash Flow Techniques

This technique estimates the time required by the project to recover, through cash inflows (CFAT), the firms initial outlay.

#### ADVANTAGES OF PAYBACK METHOD:

- It is easy and quick.
- For a firm experiencing shortage of cash, it can be used to select investments involving minimum time.
- Helps it to determine the degree of risk involved in each investment proposal.
- Ideal for investment in a foreign country with volatile political stability and also Ideal where high external financing cost of the project.
- Preferred in industries where technological obsolescence comes within short period; say electronic industries.

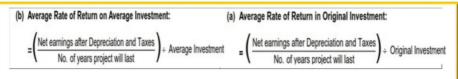
#### DISADVANTAGES OF PAYBACK METHOD:

- Ignores the time value of money and treats all cash flows at par.
- Does not consider cash flows that may be earned beyond the payout period.
- Ignores salvage or residual value, if any
- · Ignores the cost of capital as the cut-off factor

## 2. The Average Accounting Rate of Return (ARR) Method / financial statement method

It consider the relative profitability of different capital investment proposals as the basis for ranking them – the fact neglected by the payout period technique. Rate of return

is calculated by dividing earnings by capital invested. Since both numerator and denominator carry different meanings. It is not surprising if one comes across a number of variations.



Average investment = total of original investment and investment in the project at the end divided by 2. It gives best result when original investment is evenly recovered over the economic life of the project which may not always be the case.

#### Decision Rule for Average of Rate of Return Method:

Normally, business firm determine rate of return. So accept the proposal if

ARR > Minimum rate of return (cut off rate)

and Reject the project if

ARR < Minimum rate of return (cut off rate)

#### ADVANTAGES:

- (i) Earnings over the entire life of the project are considered.
- (ii) This method is easy to understand, simple to follow. Accounting concept of income after

#### DISADVANTAGES:

- (i) Ignore the time value of money.
- (ii) Te assumption of regular recovery of capital over time as implied in average investment approach is not well founded.
- (iii) Cannot be applied to a situation where part of the investment is to be made after the beginning of the project
- (iv) Different methods, so results are not the same. So its difficult to compare with cut of rate
- (v) Its major limitation is that ARR is based on accounting principle and not on cash flow analysis.

#### Suitability of using ARR Method:

If the project life is not long, then the method can be used to have a rough assessment of the internal rate of return.

#### Discounted Cash Flow (DCF) Method

The traditional techniques like the Payback period or Accounting rate of return takes no account of the time value of the money. But money received today is much more valuable than the some money received later. Present inflationary conditions magnify the difference. This is the principal factthat modern analysis technique like Discounted Cash flow have incorporated.

Discounted cash flow method involves following steps: (No need to read during exam)

- Computation of cash flows i.e. both inflows and out flows (preferably after tax) over the life of the project.
- Applying the discount factor to the cash flows.
- 3. Totalling discounted cash- inflows and comparing it with discounted cash outflows.

Broadly, there are three discounted cash flow methods for evaluating capital investment proposals i.e.

- A. Net Present Value Method
- B. Internal Rate of Return Method
- C. Profitability Index or Benefit Cost
  (B/C) Ratio Method.

## Net Present Value Method (NPV)

The net present value method is understood to be the  $\underline{\text{best available method}}$  for evaluating the capital investment proposals.

Steps: (No need to read during exam)

Under this method, the cash outflows and inflows associated with each project are ascertained first. Cash inflows are worked out by adding depreciation to profit after tax arising to each project. Since the cash outflows and inflows arise at different point of time and cannot be compared, so both are reduced to the present values at the rate of return acceptable to the management.

The rate of return is either cost of capital of the firm or the opportunity cost of capital to be invested in the project. The assumption under this method remain that cash inflows are reinvested at the same discount rate.

#### Decision Rule of using NPV Method:

If NPV > Zero : Accept the project NPV < Zero : Reject the project

NPV < Zero: Reject the project inflows and outflows

NPV = Zero: Firm is indifferent to accept or reject the project.

In essence, Net Present Value is the difference between the sum total of present values of all the future cash inflows and outflows

## ADVANTAGES:

maximisation

(i) Income over the entire life of the project is considered.
(ii) Considers time value of money.
(iii) Considers the firm objective of wealth

#### DISADVANTAGES:

- (i) It requires special skill for calculation. Difficult to understand and apply and determine the cost of capital.
- (ii) An additional difficulty in this approach is encountered when projects have unequal lives And when projects involves different amount of investment.

## Suitability of NPV Method :

Net present value is the most suitable method in those circumstances where availability of resources is not a constraint. The management authority can accept all those projects having Net

Present Value either Zero or positive.

#### Internal Rate of Return (IRR)

- The internal rate of return refers to the rate which equates,
- · The present value of cash inflows and present value of cash outflows.
- ie, it is the rate at which net present value of the investment is zero.
- If the Net Present Value is positive, a higher discount rate may be used to bring it down to
  equalise the discount cash inflows and vice versa.
- That is why Internal Rate of Return is defined as the breakeven financing rate for the project.

The necessary steps to be followed in applying this method are: (no need to read once you can solve practical questions)

- (i) Project the net cash benefit of an investment during the whole of its economic life. Future cash flows should be estimated after taxes, but before depreciation and interest.
- (ii) Determine the rate of discount that equates the present value of its future cash benefits to its present investment. The rate of discount is determined by the method of trial and error.
- (iii) Compare the rate of discount as determined above with the cost of capital or any other cutoff rate, and select proposals with the highest rate of return as long as the rate is higher than the cost of capital or cut off rate.

#### Decision Rule:

If Internal Rate of Return i.e.

r > k (cut off rate) Accept the investment proposal

r < k Reject the investment proposal

r = k Indifferent

#### ADVANTAGES:

- Considers Time value of money.
- It considers profitability of the whole project its economic life.
- Provides for uniform ranking & quick comparison of efficiency of different projects.
- Sophisticated and more reliabletechnique.
- The objective of maximising of owner's wealth is met.

#### DISADVANTAGES:

- · Most difficult of all the methods
- · An important assumption implied in this method is that incomes are reinvested (compounding) over the project's economic life at the rate earned by the investment. This assumption is correct and justified only when the internal rate of return is very close to the average rate of return earned by the company on its total investments. To the extent internal rate of return departs from the typical rate of earnings of the company, results of this method, will be misleading. Thus, when the internal rate of return on a project is computed to be 30% while company's average rate of return is 15%, the assumption of earning income on income at the rate of 30% is highly unrealistic. From this point of view the assumption of the net present value method that incomes are reinvested at the rate of discount (cost of capital) seems to be more reasonable. (Compariosn of NPV v/s IRR )
- •The rate may be negative ormore than one IRR if a project has a sequence of changes in sign of cash flow.

#### Point of Similarities

IRR will give the same results as NPV in terms of acceptance or rejection of investment proposals in the following circumstances:

- 1. Projects having conventional cash flows i.e. a situation where initial investment (outlay or cash outflow) is followed by series of cash inflows.
- 2. Independent Investment Proposals: Such proposal, the acceptance of which does not exclude the acceptance of others.

When, NPV > 0 then IRR > r required rate of return ie Ko and when npv = 0 then R = r

The NPV Method is considered to be superior than IRR. However, IRR method is preferable in the evaluation of risky projects.

## Profitability Index (PI) Method

Profitability Index is defined as the ratio of present value of the future cash benefits at the required rate of return to the initial cash outflow of the investment.

Decision Rule:

IF PI > 1 Accept the Project, PI = 1 indifferent, PI < 1 Reject the project.

In the event of more than one alternatives, projects may be ranked according to their ratio – the project with the highest ratio should be ranked first and vice versa.

Profitability index = 
$$\frac{PV}{Initial}$$
 of Future cash flows Initial cash investment  $PI = \frac{\sum_{t=1}^{n} A_t}{(1+k)^t}$ 

A, = Present value of cash inflows.

k = rate of return

C = initial cash outlay

t = time period.

#### ADVANTAGES:

- (1) Considers time value of money.
- (2) Satisfies almost all the requirements of a sound investment criterion.
- (3) Useful to rank projects of varying cash and benefits
- (4) Ensures shareholders wealth maximisation.

#### DISADVANTAGES:

- (1) Difficult to understand and compute.
- (2) Does not take into account the amount of investment.
- (3) When cash outflows occur beyond the cement period Profitability Index Ratio criterion is unsuitable as a selectioncriterion.

#### CAPITAL RATIONING

A firm with capital rationing constraint attempts to select the combination of investment projects that will be within the specified limits of investments to be made during a given period of time and at the same time provide greatest profitability.

#### CR is usually introduced when.

- when financing investment proposals is only by ploughing back its retained earnings. In that
  case, capital expenditure cannot exceed the amount of retained earnings.
- when a department is authorised to make investments upto a limit beyond which investment decisions will be made by higher level management.

## Sometimes CR does not lead optimum results because :

- CR may result in accepting several small investments than accepting a few large to fully
  utilise the budget ceiling, and hence might result in less profitability ratio (<u>Amont of profit</u>
  is maximum but Profit ratio might be less)
- Similarly, CR also means that the firm foregoes the next most profitable investment falling after the budget ceiling.

## Risk Evaluation and Sensitivity analysis

Risk analysis gives management better information about the possible outcomes that may occur so that management can use their judgement and experience to accept or reject an investment. Since risk analysis is costly, it should be used relatively in costly and important projects.

Future is Seasonal Change in cost of capital Technological fluctuations beacuse of uncertain developments and involve and business inflation/deflati making plants risk. cycles or equipments obsolete

#### Standard Deviation and Coefficient of Variation

Standard Deviation is considered as the best measures of dispersion or variability. Lower standard deviation will indicate lower variability in cash flow estimates; hence such investment proposal may be preferred against the proposal having higher standard deviation.

#### Risk Adjusted Discount Rate (RADR) Method

Risk adjusted discount rates method is used in investment and budgeting decisions to cover time value of money and the risk. The use of risk adjusted discount rate is based on the concept that investors demands higher returns from the risky projects.

The required return of return on any investment should include compensation for delaying consumption equal to risk free rate of return, plus compensation for any kind of risk taken on.

The case, risk associated with any investment project is higher than risk involved in a similar kind of project, discount rate is adjusted upward in order to compensate this additional risk borne...

## Certainty Equivalent Approach (CE Approach)

The certainty equivalent approach may be expressed as:

The certainty equivalent <u>coefficient assumes value between 0 and 1</u>, and varies inversely with risk. A lower will be used if greater risk is perceived and a higher will be used if lower risk is anticipated. The decision maker subjectively or objectively establishes the coefficients. These coefficients reflect the decision maker's confidence in obtaining a particular cash flow in period t. Thus, to obtain certain cash flows, we multiply estimated cash flows by the certainty-equivalent coefficients.

The certainty-equivalent coefficient can be determined as a relationship between the certain cash flows and the risky cash flows, i.e.

$$\alpha_{\rm t} = {{\rm NCF_{\rm t}} \over {\rm NCF_{\rm t}}} = {{\rm Certain~net~cash~flow} \over {\rm Risky~net~cash~flow}}$$

$$NPV = \sum_{t=0}^{n} \frac{\alpha_t NCF_t}{(1 + k_f)^t}$$

where NCF, = the forecasts of net cash flow without risk adjustment

 $\alpha_{\star}$  = the risk adjustment factor or the certainty equivalent coefficient

 $k_f$  = risk- free rate of return assumed to be constant for all periods

#### Decision Tree Analysis

Decision tree technique is another method which many corporate units use to evaluate risky proposals. A decision tree shows the sequential outcome of a risky decision. A capital budgeting decision tree shows the cash flows and net present value of the project under differing possible circumstances.

#### Sensitivity Analysis in Capital Budgeting

Sensitivity analysis is used in Capital budgeting for more precisely measuring the risk. It helps in assessing information as to how sensitive are the estimated parameters of the project such as cash flows, discount rate, and the project life to the estimation errors. Sensitivity analysis takes care of estimation errors by using a number of possible outcomes by evaluating a project by using a number of possible cash flows and calculating its impact on NPV or IRR to variation in underlying factors like selling price, quantity sold, returns from an investment etc. Sensitivity analysis answers questions like,

(i) What happens to the present value (or some other criterion of merit) if flows are, say Rs. 50,000 than the expected Rs. 80,000? (ii) What will happen to NPV if the economic life of the project is only 3 years rather than expected 5 years?

In terms of capital budgeting the possible cash flows are based on three assumptions:

(a) Cash flows may be worst (b) Cash flows may be most (c) Cash flows may be most (pessimistic) likely. optimistic.

Ordinarily, the assumptions are varied one at a time i.e. cash flows may be held constant with rate of discount used to vary; or discount rate is assumed constant and cash flow may vary with assumed outlay; or the level of initial outlay may change with discount rate and annual proceeds remaining the same.

#### SIMULATION FOR RISK EVALUATION

Simulation is known as simulated sampling or more fully Monte-Carlo simulation is as much an art as a technique. In simulation a mathematical model is constructed and artificial data (variables) is fed in computer.

The <u>desired parameters of the system</u> are then determined. Simulation like sensitivity analysis is not an optimising technique. It merely provides a <u>convenient representation of reality</u>. Its expensive device and suits only heavy capital expenditure.

Capital budgeting Techniques under uncertainty: Risk can be defined as the chance that the actual outcome will differ from the expected outcome. <u>Uncertainty</u> relates to the situation where a range of differing outcome is possible, <u>but it is not possible to assign probabilities</u>. The two terms are generally used interchangeably in finance. The most common measures of risk are standard deviation and coefficient of variations. There are three different types of project risk to be considered:

- 1. Stand-alone risk: This is the risk of the project itself as measured in isolation from any effect it may
- 2. Corporate or withinfirm risk: This is the total or overall risk of the firm when it is viewed as a collection or portfolio of investment projects.
- 3. Market or systematic risk: This defines the view taken from a well-diversified shareholders and investors. Market risk is essentially the stock market's assessment of a firm's risk, its beta, and this will affect its share price.

Statistical Techniques for Risk Analysis:

## (a) Probability Assignment:

•The concept of probability is fundamental to the use of the risk analysis techniques. It may be defined as the likelihood of occurrence of an event. If an event is certain to happen its probability is 1 and if its certain not to occur, its probability zero. Probability lies between zero and one.

## (b) Expected Net Present Value:

•Once the probability assignments have been made to the future cash flows, the next step is to find out the expected net present value. It can be found out by multiplying the monetary values of the possible events by their probabilities. The following equation describes the expected net present value.:

## (c) Standard Deviation:

 Standard deviation(s) is an absolute measure of risk analysis and it can be used when projects under consideration are having same cash outlay.

## (d) Coefficient of Variation:

If the projects to be compared involve different outlays/different expected value, the coefficient of variation is the correct choice, being a relative measure.

$$ENPV = \sum_{i=0}^{n} \frac{ENCF_{i}}{(1+k)^{i}}$$

## d) Coefficient of Variation:

CV = Standard deviation or  $\sigma$ Expected Value CF

# (c) Standard Deviation:

$$\sigma = \sqrt{\sum_{i=1}^{n} \left( CF_{i} \times \overline{CF} \right)^{2} \times P_{i}}$$

# (e) Probability Distribution Approach:

The application of this theory in analyzing risk in capital budgeting depends upon the behaviour of the cash flows, being (i) independent (signifies that future cash flows are not affected by the cash flows in the preceding or following years), or (ii) dependent. (the cash flows in one period depend upon the cash flows in previous periods)

## (f) Normal Probability Distribution:

The normal probability distribution can be used to further analyze the risk in investment decision.

	Chapter 2 Investment Decisions : Capital Budgeting					
1						
	for other projects.					
A)]	Independent project	B) Mutually exclusive project	<i>C</i> )	Risk free project	D) Low cost project	
	T .: (1:		_			
2		n costs into the analysis o B) have no effect on		increase the initial	D) increase the	
	the project.	the present value of the project.	C)	cash outflow of the project.	<ul><li>D) increase the project's rate of return.</li></ul>	
3	With limited finance an which has	nd a number of project pr	ropo	sals at hand, select t	hat package of projects	
	Profitability index is greater than unity	B) The maximum net present value	<i>C</i> )	Internal rate of return is greater than cost of capital	D) Any of the above	
4		e net incomes discounted				
1 (A	Net present values	B) Average capital cost	<i>C</i> )	Discounted capital cost	D) Net capital cost	
5		ions are analyzed with he				
	Common stock value is used	B) Component cost is used	<i>C</i> )	Asset valuation is used	D) Cost of capital is used	
6		PI) of 0.92 for a project:		ns that		
		B) the project's costs	C)	the project returns	D) the project's NPV is	
	greater than zero.	(cash outlay) are (is) less than the present value of the project's benefits.		92 cents in present value for each rupee invested.	greater than 1.	
7	Capital budgeting is the					
	by which the firm decides which long- term investments to make.	B) which help to make master budget of the organization.	(C)	By which the firm decides how much capital to invest in business	D) undertaken to analyze how make available various finance to the business	
0	Miletale after fill to	to dominate of the first		<b>.</b>		
8		is demerit of payback pe			NA Name of the above	
A)	This method	B) It is difficult to	L)	TI TOURS TO TOKE INTO	D) None of the above	

		1	
disregards the initial	calculate as well as	account the timing	
investment involved.	understand it as	of returns and the	
	compared to	cost of capital.	
	accounting rate of		
	return method.		
O Miles alessina amona			
	nutually exclusive project		<b>.</b>
A) Quickest payback is		C) Higher NPV get	
preferred	preferred	selected	capital will be selected
[10]			
	trying to determine how		
	umerous international di		
<u> </u>	ne of the following when		
A) the currency exchange		C) the experience of	
rate that will apply to	location where the	_	risk associated
the project	project will be		with the project
	undertaken	proposing the project	
11 4			
11 Accept a project if the		Ø ::	<b>6</b> 1 1 1
A) positive	B) less than 1	C) negative	D) greater than 1
12 Which of the following	statistical or mathemati	and tooksique of side aug	lustion is used in conital
	statistical or mathemati	cai rechnique of risk eva	iuation is used in capital
budgeting? (I) Certainty Equivalen	t Annacach		
(II) Standard Deviatio			
(III) Sensitivity Analys			
(IV) Probability Distrib	wer from the options give	n holow	
A)) I and II only	B) I only	C) I, II, IB and IV	D) I, II and III only
A))I and II only	b) I only	C) 1, 11, 15 and 1v	D) 1, 11 and 111 only
13is the	ratio of assured cash flo	wa to uncontain coah flow	10
A) Contingency Equivalent			
	B) Beta Factor (BF)	C) Certainty Equivalent	*
Factor (CEF)		Factor (CEF)	Factor (RPF)
14 Destitability index is a			
+ 14 + Protitability index is ac	stually a modification of t	h -	
	ctually a modification of t		N Niel mannism
A) Net present value	B) Payback period		D) Risk premium
	ctually a modification of t  B) Payback period  method		D) Risk premium method
A) Net present value	B) Payback period		' '
A) Net present value method	B) Payback period method	C) IRR Method	' '
A) Net present value method  15 The decision to accept	B) Payback period method or reject a capital budge:	C) IRR Method  ting project depends on	method
A) Net present value method	B) Payback period method or reject a capital budge	C) IRR Method  ting project depends on	' '

		I	<u> </u>	
business/project.	generated by the			
	project			
16 What is the difference	between economic profit	t and accounting profit?		
A) Economic profit covers			D) All of the above	
the profit over the	includes a charge	is based on current	Eire correct.	
life of the firm, while	for all providers of	accepted		
accounting profit only	capital while	accounting rules		
covers the most	accounting profit	while economic		
recent accounting	includes only a	profit is based on		
period.	charge for debt.	cash flows.		
17 Which of the following	ic demonit of navback no	nioda		
A)) This method makes no			D) All of the above	
attempt to measure a	whether an	cash generation	D) All of The above	
percentage return on	investment should	beyond the		
the capital invested	be accepted or	payback period and		
and is often used in	rejected, unless	this can be seen		
conjunction with other	the payback period	more a measure of		
methods.	is compared with	liquidity than of		
	an arbitrary	profitability.		
	managerial target.	, ,		
18 . Which of the followi		nt of time that it takes	for a capital budgeting	
project to recover i				
A) Payback period	B) Maturity period	C) Investment period	D) Redemption period	
19 . A project is accepted	when:			
15 . A project is accepted	Witch			
A) Internal Rate of	B) Net present value is	C) Profitability index	D) Any of the above	
Return will be greater	greater than zero	will be greater	, ,	
than cost of capital	-	than unity		
		-		
20 . Statement I:				
1 1	ning, a company is compe	lled to invest in projects	having shortest payback	
period.				
Statement II:			9 1 1 1 1	
		s the project. Therefore	, it can be considered as	
an indicator of risk.		en halow:		
	wer from the options give  B) Statement I is true	1	D) Doth Ctotomout T	
A) Both Statement I and Statement II are	but Statement I is true	C) Statement II is true but	D) Both Statement I and Statement II	
false.	is false.	Statement I is	are true.	
ruise.	is ruise.	false.	are irue.	
	l .	, arse.		

21 Incorporating flotation	costs into the analysis o				
A) increase the NPV of	,	,	-		
the project.	the present value	cash outflow of	project's rate of		
	of the proj ect.	the project.	return.		
22 4					
22 A project whose acc	eptance does not preve s is referred to as	ent orrequire the accep	tance ot one or more		
		C) Contingent project	N\ Namendant project		
A) Independent project	project	c) confingent project	D) Dependent project		
	project				
23 The Internal Rate of F	Return (IRR) criterion for	r project acceptance und	ler theoretically infinite		
funds is:		project acceptance, and	,		
Accept all projects whi	ich have -				
A) IRR greater than the		C) IRR less than the	D) None of the above		
cost of capital	cost of capital	cost of capital			
·					
24 Which of the following		rate			
of return (ARR) metho					
A) It fails to measure	,	,	D) All of the above		
properly the rates of					
return on a project even if	value of money.	projects in the			
the cash flows are even		same way that			
over the project life.		payback is biased			
		against longer-			
		term ones.			
25 Consider following two	statements				
	ule specifies that all inde	enendent projects with a	nositive NPV should be		
accepted.	are specifies mar an mac	spendent projects with a	positive (4) V should be		
· ·	ng mutually exclusive proj	ects the project with th	e largest (positive) NPV		
should be selected.		colo, mo project with m	ie iai geer (poeriive) i ii v		
Select the true staten					
A) Neither I nor II	B) I only	C) Both I and II	D) II only		
			,		
26 The shorter the payba					
A) the less risky is the	B) the more risky is	C) more will the NPV	D) ) less will the NPV		
project.	the project.	of the project	of the project.		
	lity is unlimited and the p	projects are not mutually	exclusive, for the same		
cost of capital, following criterion is used?					

A) Internal Rate of Return	B) Net present value	C) Profitability Index	D) Any of the above		
28 NPV = Rs.	I				
A) Project's cash inflows		_,	· •		
after tax minus the	inflows minus the	project's cash	the project's cash		
project's cash	J	inflows minus the	inflows minus the		
outflows.	outflows.	present value of	present value of		
		the project's cash	the project's cash		
		outflows.	outflows.		
29 A project is accepted					
A) ) Internal Rate of	B) Net present value is	C) Profitability index	D) Any of the above		
Return will be greater	greater than zero	will be greater			
than cost of capital		than unity			
20 Which of the following		nt of time that it takes	for a conital budgeting		
30 Which of the following project to recover		II of time that it takes	tor a capital buageting		
A) Payback period	B) Maturity period	C) Investment period	D) Redemption period		
, , ,	, ,,	,			
31is an investment appraisal technique calculated by dividing the present value of					
future cash flows of a project by the initial investment required for the project.					
A) Indexed cost method	B) Cost benefit ratio	C) Profitability index	D) Both (B) and (C)		
32 . Which of the following	g statement is true in rel	ation to NPV Method?			
		proposals over its lifetim	e.		
2. It recognizes the ti					
	e rates, which can be cont	fusing.			
		ounted by using risk free i	rate.		
	wer from the options give				
A))1,2 & 3	B) 1 & 3	C) 1 & 2	D) 2, 3 & 4		
33 Lower standard deviat	ion indicatos				
A) higher risk	B) lower risk	C) highly favorable	D) no risk at all		
A) Higher risk	b) lower risk	situation	D) no risk ar an		
		Situation			
34 is a	technique used to dete	ermine how different va	lues of an independent		
l l	-	ble under a given set of a			
A) Single Variable	B) Simulation Analysis	C) Sensex Analysis	D) Sensitivity Analysis		
Analysis	_	·			

35 Which of the following	35 Which of the following statements is incorrect regarding a normal project?				
A) If the PI of a project	B) If the NPV of a	C) If the IRR of a	D) ) If the IRR of a		
equals 0, then the		project is 8%, its	proj ect is greater		
project's initial cash	1 0	NPV, using a	than the discount		
outflow equals the PV of	•	discount rate, KO,	rate, then its PI		
its cash flows.	Will exceed 1.	greater than 8%,	will be greater		
its cash riows.		will be less than 0.			
		will be less man o.	than 1.		
	discount rate which shou	ıld be used in			
capital budgeting.					
A) Risk free rate (Rf)	B) Cost of capital (Ko)	C) Beta rate (P)	D) Risk premium (Rm)		
37 Which of the following	method of capital budge	ting ignores the time valu	e of money?		
			•		
A)) Net present value	B) Discounted payback	C) Internal rate of	D) None of the above		
, , , , , p	period	return			
	Portog				
38 . As per discounted pay	hack period method a pr	niect with			
A) higher NPV will be	<del> </del>	C) more discounted	D) low NPV will be		
, , ,	,		-		
preferred.	payback period will	payback period will	preferred.		
	be selected.	be selected.			
	capital budgeting project	is the discount rate at	which the Net Present		
Value (NPV) of a pr	oject equals zero.				
A) Risk Free Rate of	B) External Rate of	C) Internal Rate of	D) Price Cost Method		
Return (RFRR)	Return (ERR)	Return (IRR)	(P <i>C</i> M)		
	, ,	, ,			
40 When operating under	r a single-period capitalı	rationina constraint vou	may first want to try		
	y descending order of th				
	e mix of projects that ad		give yourself the best		
A) Payback Period (PBP)		C) Net Present Value	D) Internal Rate of		
A) rayback relied (rbr)					
	(PI)	(NPV)	Return (IRR)		
-	nutually exclusive project				
A) Higher NPV get	B) Lower cost of	C) Longest payback is			
selected	capital will be	preferred	preferred		
	selected				
42 Which of the follow	ina capital budaetina to	echniques takes into a	ccount the incremental		
42 Which of the following capital budgeting techniques takes into account the incremental accounting income rather than cash flows?					
A) Internal rate of return		C) Cash payback	D) Accounting/simple		
My Internation Telum	b) I ver present value	c) cush payback	o, Accounting/simple		

		period	rate of return
43 A single, overall cost of	f capital is often used to	evaluate projects because	2:
A) it is the only way to measure a firm's required return.	<u> </u>		D) it acknowledges that most new investment projects have about the same degree of risk.
			•
44 . Ranking projects acco	rding to their ability to r	epay quickly may be usefi	ul to firms:
A) when careful control over cash is required.	B) when experiencing liquidity constraints.	C) when careful control over cash is required.	D) All of the above
of this fact, it is be	est if the firm:	otedly result in zero or n	
A) Adjusts its hurdle rate     (Le. cost of capital)     downward to     compensate for this     fact	B) Adjusts its hurdle rate (Le. cost of capital) upward to compensate for this fact.	compensate for	D) Does not adjust its hurdle rate up or down regardless of this fact
46 A project whose accereferred to as		ceptance of one or more	alternative projects is
A) Dependent project	B) Mutually exclusive project	C) Independent project	D) Contingent project
	<del> </del>	ed rates of return for a f	
A) All of the above	B) Different projects should have different required rates of return because they are not alike with respect to risk.	C) Each firm should have a different required rate of return because firms are not alike with respect to risk and have been created historically by projects taken that differ with regards to risk.	D) A division of the firm will always have a required rate of return different from the firm's overall weighted average cost of capital because the risk of the division always differs from that of the firm.

48 Which of the following projects?	g is not a potential for a	ranking problem between	n two mutually exclusive
A) One of the mutually exclusive projects involves replacement while the other involves expansion.	unequal lives that differ by several	C) The costs of the two projects differ by nearly 30%.	D) The two projects have cash flow patterns that differ dramatically.
49 How ARR is calculated?	•		
A) (Average NPV/Investment) Rs.100		C) Initial Investment/Average PAT) Rs.100	,
50 The adjusted present y	value (ADV) is best descri	had as bains	
50 The adjusted present of A) equal to the discounted value of operating cash flows plus the present value of any tax-shield benefits less any flotation costs			D) equal to the discounted value of operating cash flows plus the present value of any tax-shield
51 Which of the following method?	ng statements is correc	t regarding the interna	I rate of return (IRR)
A) As long as you are not dealing with mutually exclusive projects, capital rationing, or unusual projects having multiple sign changes in the cashflow stream, the internal rate of return method can be used with reasonable confidence.	B)) Each project has a unique internal rate of return.	C) The internal rate of return is rarely used by firms today because of the ease at which net present value is calculated.	D) The internal rate of return does not consider the time value of money.
52 The IRR decision rule s	enacifies that all independ	Vant no jacte	
A) having IRR greater     economic value added     shoul d be selected.			D) with an IRR greater than the cost of capital should be accepted though it have negative NPV.

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53 An increase in the disc	ount rate will:		
A) Have no effect on net	B) Reduce the present	C) Increase the	D) Compensate for
present value.	value of future	present value of	reduced risk.
	cash flows.	future cash flows.	
54 If you are considering			
higher than Project	Y but IRR of Project Y i	s greater than Project X	
A) Project X	B) Project Y	C) Some other project	D) None of the above
55 . If we add depreciatio			
A))CFAT	B) Profit available for	C) Free cash flow	D) Net cash flow
	equity shareholder		
56 Which of the following			
A) 100/payback period)	, , , , , ,		' ' '
Rs.10	Rs.100	period) X β] ÷ 100	period) X β
57 Using profitability inde			
	B) the lower the		· •
profitability index, the			cost, the more
more desirable the		desirable the project.	desirable the
project.	the project.		project.
58 Which of the following			
A) They are never		C) They are in direct	
evaluated.	direct competition	· •	
	with each other.	each other.	shareholder wealth.
[==]			
59 Which of the following			
A) Simple cash payback		-	
method	return method	payback method	method
[40] = 1			
60 The term mutually excl		a =1	- I.
l *	B) Choose only the	C) There are no	D) The elite
investment precludes the	best investments	investment options	
selection of an alternative		available.	opportunities will get
			chosen.
41 The cumpont month of a	aum of money to be seen	ivad at a futura data :	alladı
61 The current worth of a	-		
A) Present value	B) Real value	C) Future value	D) Salvage value

62 A project whose cash value will be	flows are more than capi	tal invested for rate of	return then net present		
A) Independent	B) Positive	C) Zero	D) Negative		
63 Capital rationing refers	s to a situation -				
A) where cost of the	B) where a company	C) where a company	D) where company is		
projects is equal to	cannot undertake	cannot undertake	confused in		
present value leading NPV	projects as the	all positive NP V	selection of more		
to zero.	cost of capital is	projects, it has	than one projects.		
	less than required	identified because			
	rate oi return on	of shortage of			
	projects.	capital.			
64 Generally, a project is	considered acceptable if	its net present value is:			
A) Negative or positive	B) Negative or zero	C) Negative	D) Positive or zero		
65 The beta coefficient is	associated with -				
A) Dividend valuation	B) Capital asset	C) Tax-adjusted cost	D) Risk-free rate plus		
model	pricing model	of debt	premium model		
66 Why are projects with	negative net present valu	ues (NPVs) unacceptable t	o a firm?		
A) Returns lower than the	B) Returns lower than	C) Returns with	D) Returns with		
cost of capital result in	the cost of capital	negative NPVs cause	negative NPVs are		
higher profit ratios	result in firm	an equal profit ratio.	acceptable to a		
	failure.		firm.		
67 Cash flows that should		on in hand are classified o	IS -		
A) Irrelevant cash flows	B) Relevant cash flows	C) Transaction cash	D) Marginal cash flows		
		flows			
68 Risk of a capital budge					
A) Adjusting the Discount		C) Adjusting the life	D) All of the above		
Rate	flows				
69 Which of the following					
A) RADR is overall cost of	, , ,		D)) All of the above		
capital plus risk-	NPV at RADR is	IRR is more than			
premium	negative	RADR			

70 The difference between the present value of cash inflows and the present value of cash outflows associated with a project is known as:				
		_		
project	of the project	the project	of the project	
	is an example of a capita			
A) Development of	-,	' '	D) All of the above are	
employee training	worn out equipment	production facilities	examples of capital	
programs			investment	
			projects.	
72 Tutarual Data of Datum	i. d.£id			
72 Internal Rate of Retur		0 T 005	6) T 605 1 1	
A) The discount rate		i i	T	
which causes the NPV		1 0	NPV equals 0.	
to equal zero.	payback to equal one	maximization.		
	year.			
73 In capital budgeting, p				
A) Positive economic value	. 3	-	,	
added	value added	value added .	value added	
74 What are the two draw				
A) The time value of	1			
money is considered.	money is ignored.	money is ignored.	money is	
It ignores cash flows			considered. It	
beyond the payback			includes cash flows	
period.	payback period.	payback period.	beyond the	
			payback period.	
1 1 .	ash outflow is equal to pr	esent value of cash inflov	v, the net present value	
will be:		_	_	
A) Negative	B) Positive	C) Infinite	D) Zero	
	1			
	s and nominal cash flows o	· · · · · · · · · · · · · · · · · · ·		
A) Equity effects	B) Inflation effects	C) ) Opportunity	D)) Debt effects	
		effects		
77 Which of the following	g cash flows should not b	e considered relevant in	calculating project cash	
flows?				
A) Opportunity costs	B) Investments in net	C) Any effects caused	D) Sunk costs	
	working capital as a	by cannibalization		
	result of making			
	the investment			

70 Which of the following	is not applied in conital b	doating?	
78 Which of the following  A) All costs and benefits			D) All accrued costs
are measured on cash	calculated in	measured on after	and revenues be
basis	incremental terms	tax basis.	incorporated
Dusis	merementar terms	Tux busis.	incorporarea
		L	
79 In mutually exclusive p	rojects, project which is:	selected for comparison i	with others must have
A) Zero net present value	B) Higher net present	C) Lower net present	D)) All of the above
	value	value	
80 In cash flow estimation			
A) High inflation	B) No inflation	C) No acceleration	D) No transactions
81 Capital budgeting is the	nnocace of identifying a	nalyzing and selecting inv	actments project whose
	ed to extend beyond -	naiyzing and selecting inv	estilients project whose
A) 2 years	B) 3 years	C) Months	D) 1 year
, = / = =	2, 2, 2 2	9,	5,2,5
82 In Certainty Equivalent	Approach, the CE Factor	rs for different years are	2:
A) Generally decreasing	B) Generally increasing	C) Generally same	D) None of the above
83 Expected Value of Cash		m	63 4 111 11
A) Most likely cash flows	B) Certain to occur	C) Geometric average	D) Arithmetic average cash flow
		cash flow	cash Tiow
84 . Which method prov	ides more confidence t	the payback method or	the net present value
method?	ides more confidence, i	me payback memou or	me ner present value
A) Payback because it	B) Payback because it	C) Net present value	D) Net present value
provides a good	tells you when you	because it does not	because it considers
timetable.	break even.	need to use cost of	all inflows and
		capital.	outflows and the time
			value of money.
85 Decision-tree approach			
A) Sequential decisions	B) Proposals with	C) Accept-Reject	D) Independent Cash
	longer life	Proposal	flows
86 All benefits are measur	red on after tay basis		
	B) is related to Fixed	C) has very large	D) brings short-term
benefits	Assets	C) has very large investment	benefits only
Dellettis	//33613	mvesimeni	Delicinis only
		I	

87   Relationship between Economic Value Added (EVA) and Net Present Value (NPV) is considered as												
A) Economic relationship	B) Valued relationship	C) Inverse relationship										
88 Real interest rate and real cash flows do not include -												
A) Opportunity effects	B) Equity effects	C) Debt effects	D) Inflation effects									
00 C-1:	89 . Cash inflows are revenues of project and are represented by—											
			N									
A) Relative number	B) Hurdle number	C) Positive numbers	D) Negative numbers									
90   Concept of joint probability is used in case of:												
A) Dependent cash flows	B) Independent cash	C) Certain cash flows	D) Uncertain cash									
A) Dependent cash flows	flows											
04 7 1:55	1 DCD /D (:. C + D	10										
91 Indifference criteria w			5344									
A) BCR = 1	B) BCR > 1	C) BCR < 1	D) None of the above									
92 To estimate an unknow												
A) Capital budgeting	B) Capital rationing	C) Amortization	D) Interpolation									
			I									
93 Situation in which comp	oany replaces existing ass	ets with new assets is clo	assified as									
A) New projects	B) Replacement projects	C) Internal projects	D) Existing projects									
	I	I										
94   Which of the following												
A) Time Value of Money	B) Tax Effect	C) Rate of Cash Discount	D) Required Rate of Return									
95 If two projects are co	mpletely independent (or	unrelated), the measure	of correlation between									
A) 0.5	B) O	C))-1.0	D) 1.0									
		I	I									
96 The investment propos		tive risk would have:										
A) Highest coefficient of	B) Highest standard	C) Lowest opportunity	D) Highest expected									
variation of net present	deviation of net	loss.	value of net									
value.	present value.		present value.									
97   Criterion for IRR (Inte												
A) Accept, if IRR < Cost of capital	B) Accept, if IRR > Cost of capital	C) Accept, if IRR = Cost of capital	D) None of the above									
		1	1									

98 The process of planning	ng expenditures that will	influence the operation of	of a firm over a number									
of years is called -												
A) Capital budgeting	B) Investment	C) Dividend valuation	<ul><li>D) Net present valuation</li></ul>									
			valdation									
99 Consider following two statements.												
(I) Capital budgeting decisions are reversible in nature.												
	(II) An expansion decision is not a capital budgeting decision.											
Select the correct answer from the options given below.												
Statement (I) Statement (II)												
A) True True B) False True C) True False D) False												
100 Probability-tree analy	usia ia haat waad whan aaa	h flows and avnocted to b	01									
A) Risk-free.	B) Independent over											
A) NISK-ITEE.	time.	flows in previous										
	Time.	periods.	certainty.									
		portodor										
101   Which of the followin	g statements is correct r	regarding the risk-adjuste	ed discount rate (RADR)									
approach?												
A) Adjusting the firm's	•	′	) Under the RADR									
overall cost of capital	approach, we	approach, we	approach, we would									
downward is required	should accept a	should NOT	still compare a									
if the project or	project if its net	accept a project	project's internal									
group are of lower than average risk.	present value (NPV) calculated	if its net present value (NPV)	rate of return (IRR) to the firm's overall									
man average risk.	using a risk-	calculated using a	weighted-average									
	adjusted discount	risk-adjusted	cost of capital in									
	rate is positive.	discount rate is	order to decide									
	raro lo positivos	positive.	acceptance/rejection.									
		<b>P</b>										
		<u> </u>										
		ependent capital budgeti										
		rate (RADR) method of a										
		6, respectively. RADR app										
		The company's overall, we	eighted-average cost of									
capital is 14%. Dar		I										
A) Reject Project X and	' ' '		D) Reject Project X									
accept Project Y	and accept Project	and reject Project	and reject Project Y									
	y	y										
103 Which of the followin	a is correct formula to co	alculate risk-adjusted disc	count rate?									
A) 5D(β) ÷ NPV	B) Rf + β (Rm - Rf)	C) K X β (Rm-Rf)	D) Rm - Rf) + (K -Rf)									
	, , , , , , , , , , , , , , , , , , , ,											
104 The categories of cas												
A) Cash flow from termina	B) Net initial	C) Cash flow from	D) All of the above									

disposal after paying taxes	investment	operations after paying taxes									
	'	'	'								
The decrease in purchasing power of any monetary unit such as euro, dollars etc. is classified as  A)) Inflation  B) Net investment C) Buying parity  D) Purchasing parity											
A)) Inflation	B) Net investment parity	D) Purchasing parity									
106 The method which calculates the time to recoup initial investment of project in form of expected cash flows is classified as -											
A) Payback method	B) Net value cash flow method	C) Lean cash flows method	D) Single cash flow method								
expected value of On the basis of ris	You are considering two mutually exclusive investment proposals, project A and project B. B's expected value of net present value is \$1,000 less than that for A and A has less dispersion. On the basis of risk and return, you would say that:										
A) Project B dominates	B) ) Project A is more	C) Each project is high	D) Project A								
project A.	risky and should offer greater	on one variable, so the two are	dominates project								
	expected value.	basically equal.									
			(====)								
and Discounted P	t Present Value (NPV) me ayback Period (DPP) to ecently appraised using	appraise its new inve	stment. An investment								
	NPV of Rs.1.5 million, an										
	he cost of capital of th										
	ould be the effect on th										
1	ccount of the lower cost										
NPV	IRR	DPV									
A) Increase Noeffect	B) Increase Increase	C) No effect	D) Decrease No								
Decrease	Decrease	Decrease	effect Decrease								
		No effect									
109 When using the expec	ted value criterion, it is a	ssumed that the individu	al wants to								
A) Maximize return for	B) Maximize return	C) Maximize return	D) All of the above								
maximum level of risk	for a given level of	irrespective of the									
	risk	level of risk									
110 The concept which ex received in future	plains that a money recei is classified as -	ved in present time is m	ore valuable than money								
A) Storage value of money	B) Lead value of money	C) ) Cash value of	D) Time value of								
, , , , , , , , , , , , , , , , , , , ,			money								
	,	money	l '								

111 You are considering tw	o projects namely Project	t X and Project Y. 3										
	Project X has low standard deviation but high coefficient of variation as compared to Project Y.											
Project Y has high stai	Project Y has high standard deviation but low coefficient of variation as compared to Project X.											
Which project will you select?												
A) Project X only	B) Project Y only	C) Both Project X &	D) Neither Project nor									
		Project Y	& Project Y									
	112 Two mutually exclusive projects are being considered. Neither project will be repeated again in											
112 Two mutually exclusive	e projects are being cons	idered. Neither project v	vill be repeated again in									
the future after their current lives are complete. There exists a potential problem though												
the expected life of the first project is one year and the expected life of the secon												
project is three years. This has caused the NPV and IRR methods to suggest differen												
project preferenc	es. What technique can	be used to help make a	better decision in this									
scenario?												
A) Use the common-life	' '	C) In this situation, we	D) Ignore the NPV									
technique to replicate	· ·	need to rely on the	technique and									
the one-year project	choice as it will tell	profitability index	simply choose the									
three times and	you which one is best.	(PI) method and	highest IRR since									
recalculate the NPV		choose the one	managers are									
and IRR for the one-		with the highest	concerned about									
year project.		PI.	maximizing									
			returns.									
110 75 fix-biliz - ind-		and desirence observes and	taul meathering and as To									
		nent decisions where cap										
I I	_	an optimal portfolio, the	use of the profitability									
index is appropriat  1. Projects are divisible	,											
, v	e. curs within a single invest	ment period										
		ment period. rue/false relating to th	a abova statements is									
correct?	onowing combinations (ii	rue/laise relating to th	e above statements is									
Statement 1		Statement 2										
A) True False	B) True True	C) False False	D) False True									
71) Tide Taise	b) frac	c) ruise ruise	O)Tuise True									
114 The coefficient of var	iation of net present valu	e measures the										
			D) Highest expected									
A) Deletive rick of the	(R) lotal rick of the	( ) Market rick at the										
A) Relative risk of the	,		, ,									
A) Relative risk of the project	B) lotal risk of the project	c) Market risk of the project	value of net									
,	1 '		, ,									
,	1 '		value of net									
project	project	project	value of net present value									
project  115   The rate of return to	project  cover risk of investment		value of net present value									
project  The rate of return to inflation is classification.	project  cover risk of investmented as -	project and decrease in purchas	value of net present value ing power as a result of									
project  115 The rate of return to inflation is classification. A) ) Required rate of	project  cover risk of investment ed as -  B) Nominal rate of	and decrease in purchas  C) Accrual accounting	value of net present value									
project  The rate of return to inflation is classification.	project  cover risk of investmented as -	project and decrease in purchas	value of net present value ing power as a result of									
project  115 The rate of return to inflation is classification. A) ) Required rate of	project  cover risk of investment ed as -  B) Nominal rate of	and decrease in purchas  C) Accrual accounting	value of net present value ing power as a result of									

ı																
	1	а	11	a	21	С	31	d	41	d	51	а	61	a	71	d
	2	С	12	C	22	а	32	С	42	d	52	С	62	b	72	а
	3	b	13	С	23	а	33	b	43	b	53	b	63	С	73	а
	4	а	14	а	24	d	34	d	44	d	54	а	64	d	74	b
	5	d	15	C	25	С	35	а	45	d	55	а	65	b	75	d
	6	С	16	b	26	а	36	b	46	b	56	b	66	b	76	b
	7	а	17	d	27	d	37	d	47	b	57	а	67	b	77	d
	8	С	18	а	28	С	38	b	48	а	58	С	68	d	78	d
	9		19	d	29	d	39	С	49	b	59	a	69	а	79	b
	10	d	20	d	30	а	40	b	50	а	60	а	70	b	80	b
	81	d	91	а	101	b	111	b	121	b	131	d	141	b	151	d
	82	а	92	d	102	а	112	b	122	d	132	а	142	C	152	d
	83	а	93	b	103	b	113	С	123	С	133	а	143	d	153	С
	84	d	94	С	104	d	114	а	124	b	134	а	144	b	154	а
	85	а	95	b	105	а	115	b	125	b	135	С	145	а	155	b
	86	d	96	а	106	а										
	87	d														
	88	d	97	b												
			98	а	107	d										
	89		99	d	109	b										
ı	90	а	100	С	110	d										