

Chapter 2: Fundamental concepts and techniques

Self test questions

CII	test	questions		
1.	Whic	h of the following are sources of the time value of money?		
	(a) (b)	A positive risk free interest rate Peoples' preference for present rather than future consump- tion	☐ True ☐ True	□ False □ False
	(c) (d)	Productive investment opportunities People's risk aversion	☐ True ☐ True	□ False □ False
2.	-	u invest 100 for two years at an annual interest rate of 4% ally, the end value is:	compour	ided semi-
	(b) (c)	104.25 108.00 108.16 108.24		
3.	the e	i invest 50 for two years at an annual interest rate of 5% composed value is: 55.00	ounded co	ntinuously,
	(c)	55.13 55.19 55.26		
4.	If the	e compounding frequency increases, the effective annual rate:		
	(b)	Increases Is not affected Decreases		
5.		n has an annual interest rate of 8% but the interest has to be perfective annual rate?	oaid quarte	erly. What
	(b) (c)	8.20% 8.24% 8.88% 16.64%		

6. If the annual interest rate is 6% , what is the present value of a perpetual cash 25 that starts 1 year from now?				ash flow of	
	(a)	416.67			
	(b)	417.27			
	(c)	418.80			
	(d)	545.66			
7.	. If the annual interest rate is 5% , what is the present value of a perpetual cash flow c 50 that starts 1 year from now and that grows with 4% per year?				
	(a)	1357.90			
	(b)	1722.70			
	(c)	2868.40			
	(d)	5000.00			
8.	Wha	t is depreciation? The accounting way of spreading the costs of long lived assets over time	☐ True	☐ False	
	(b) (d)	The annual reduction in book value of fixed assets A cost in bookkeeping terms but not a cash out-flow	☐ True ☐ True ☐ True	☐ False ☐ False ☐ False	
9.	Does	s depreciation affect the firm's cash flow?			
	(a)	Yes, it is a cost that reduces net profit			
	(b)	Yes, but only indirectly because it is tax deductible and reduce	es the tax	bill	
	(c)	No, it is a bookkeeping entry and not a cash out-flow			
10.	The	balance sheet identity means that:			
	(a) (b)	Total assets $=$ Equity $+$ Liabilities The sum of left hand side of the balance sheet is equal to the sum of the right hand side	☐ True☐ True	☐ False☐ False	
	(c)		☐ True	☐ False	
11.	Curr	ent assets are assets that are:			
	(a)	Converted into cash within a short period of time			
	(b)	Held in foreign currencies			
	(c)	Presently in use			
	(d)	None of the above			
12.	Wha	t are accounts receivable?			
	(a)	The amount owed to the firm by its business partners			
	(b)	The amount the firm owes to its business partners			
	(c)	The positive balance of the above two			

13.	What are accounts payable?					
	(a) The amount owed to the firm by	(a) The amount owed to the firm by its business partners				
	(b) The amount the firm owes to its	business p	artners			
	(c) The positive balance of the above	e two				
14.	What is net working capital?					
	(a) The total value of all current asse	(a) The total value of all current assets				
	(b) The total value of all current liab	ilities				
	(c) The positive balance of the above	e two				
15.	What is equity?					
	(b) The capital supplied by the firm's managers □ True □ Fa (c) The claim of the shareholders against the firm's possessions □ True □ Fa				☐ False☐ False☐ False☐ False	
16.	Book values are close to market values	5:				
	(a) For accounting items that are short lived					
	(b) If the firm uses a low depreciation rate					
	(c) If the firm has a very good bookkeeping system					
17.	What is the opportunity cost of capital for a risky project?					
	(a) The time value of money					
	(b) The time value of money plus ex	pected infl	ation			
	(c) The time value of money plus a r	risk premiu	m estimated from	similar pro	ojects	
	(d) The time value of money plus expected inflation plus a risk premium estimate from similar projects					
18.	Which of the following items are included in the accounting representation of a projection but not in the financial representation?				f a project	
	(a) Investment outlay(b) Depreciation(c) Irreversible past investments(d) Changes in net working capital	☐ True☐ True☐ True☐ True☐ True				
19.	Which of the following items are included not in the accounting representation?	led in the f	inancial representa	tion of a p	oroject but	
	 (a) Investment outlay (b) Depreciation (c) Irreversible past investments (d) Changes in net working capital 	☐ True☐ True☐ True☐ True☐ True	☐ False☐ False☐ False			

20.	The incremental cash flows caused by a new project include:				
	(a) (b) (c) (d)	Cash flow reductions of other projects			
21.	Which of the following are deficiencies of the book rate of return?				
	(a) (b) (c) (d)	It uses accounting returns instead of cash flows It ignores that later returns are less valuable than earlier one It calculates a return for each year of the project's life It does not use a market based required return rate	□ Tru es □ Tru □ Tru □ Tru	e □ False e □ False	
22.	Which	of the following are disadvantages of the payback period?			
	(a) (b) (c) (d)	It does not use discounted cash flows □ True □ False It does not include all cash flows □ True □ False It ignores the time value of money □ True □ False It ignores the riskiness of cash flows □ True □ False			
23.	Which	of the following are disadvantages of the internal rate of ret	urn (IRR)?	?	
	(a)	It incorrectly accepts projects whose IRR is larger than the opportunity cost of capital	☐ True	☐ False	
	(b)	It only works for normal cash flow patterns (first out-, then inflows)	☐ True	☐ False	
	(c)	A project can have more than 1 internal rate of return Its results are unreliable for mutually exclusive projects	□ True □ True	□ False □ False	
24.	4. Why are utility functions concave?				
	(a) Because each additional unit of a good gives less utility than its predecessor				
	(b) Because people assign less weight to consumption (far) in the future				
	(c) Because people are risk averse				
25.	What	are indifference curves?			
	(a) (b)	Combinations of choices that give the same utility The intersection of a fixed utility value with a 2-dimensional utility function	☐ True ☐ True	☐ False☐ False	
	(c)	Instruments for rational economic decision making	☐ True	☐ False	
26.	Risk a	version follows from:			
	(a) l	Human nature			
	(b) (Concave utility functions			
	(c) A	Assumptions about economic decision making			
	(d) [None of the above			

21.	Fisher	separation means that:					
	(a) The investment and consumption decision can be separated(b) It does not matter where the money comes from, only where it goes to				□ True □ True	□ False □ False	
	(c)	_			☐ True	□ False	
	(d) (e)	Managers can use market data Managers can use the rule: maximi	ze net pre	sent value	□ True □ True	□ False □ False	
28.	Which of the following are functions of <i>primary</i> financial markets?						
	(a) (b) (c)	Generate funds for companies Provide marketability and liquidity Determine prices	□ True□ True□ True	☐ False☐ False☐ False			
29.	Which of the following are functions of secondary financial markets:						
	(a) (b) (c)	Generate funds for companies Provide marketability and liquidity Determine prices	□ True□ True□ True	☐ False☐ False			
30.	Which	of the following are functions or pra	actices of	brokers:			
	(a) (b) (c) (d) (e)	Provide access to financial markets, Stand ready to but and sell at quot Hold an inventory of shares to meet Charge a fee (commission) Receive the difference between bid	ed prices t demand	·	☐ True ☐ True ☐ True ☐ True ☐ True ☐ True	☐ False☐ False☐ False☐ False	
31.	Which of the following are functions or practices of <i>dealers</i> :						
	(a) (b) (c) (d) (e)	Provide access to financial markets, Stand ready to but and sell at quot Hold an inventory of shares to meet Charge a fee (commission) Receive the difference between bid	ed prices t demand		☐ True ☐ True ☐ True ☐ True ☐ True ☐ True	☐ False☐ False☐ False☐ False	
32.	A long position in shares:						
	(a) (b) (c) (d)	Means holding the shares Profits from a price <i>increase</i> Is usually for the long run Requires a margin to be deposited	☐ True ☐ True ☐ True ☐ True	☐ False☐ False☐ False			
33.	A short position in shares:						
	(a) (b) (c) (d)	Means owing the shares Profits from a price decrease Is usually for the long run Requires a margin to be deposited	□ True□ True□ True□ True	☐ False☐ False☐ False			