Introduction to Corporate Finance 5th Edition Frino Test Bank

am					
me					
ULTIPLE CHOIC	E. Choose the	e one alternative that b	est completes the stateme	nt or answers the question	n.
			tween the future value of S		1)
A) \$13.		B) \$22.10	C) \$56.05	D) \$213.87	
Answer:					
Explanati	on: A) B)				
	C)				
	D)				
2) What is th p.a.?	e future value	e of \$20 invested for 80 y	years at an annually comp	ounded interest rate of 7%	2)
A) \$11,	200.00	B) \$448.68	C) \$4,495.66	D) \$4,484.68	
Answer:					
Explanati					
	B) C)				
	D)				
0) 1441		, (1 + <i>r/m</i>) <i>m</i> - 1, calculat			3)
B) Com C) The	npound interest number of co	st rate over <i>t</i> periods wh mpounding periods ove	nere r is the effective simpl nere r is the number of con or t years where r is the effe Is where r is the compound	npounding periods ective simple interest rate	
Answer:)				
Explanati					
	B) C)				
	D)				
4) What is th	ne future value	e of a \$1,000 invested for	⁻ 20 years at an interest rat	e of 10% p.a.	4)
	ded quarterly?		0) + (= 0 = = 0	D) + 1700 01	
A) \$720		B) \$3000.00	C) \$6727.50	D) \$4709.21	
Answer: Answer					
Lapianati	B)				
	C)				
	D)				
5) What is th	e present valu	ue of an annuity consisti	ng of 5 annual payments of	of \$200 with an interest	5)
rate of 8%	p.a. compour	nded annually and the f	irst payment made immed	liately?	, <u> </u>
A) \$862 Answer: <i>A</i>		B) \$643.77	C) \$889.68	D) \$798.54	
Explanati					
- Apidilati	B)				
	C)				
	D)				

6) What is the fut A) \$21,250.0		\$3,400 invested for B) \$3,173.33	7 years at a simple interest ra C) \$5,185.00	ate of 7.5% p.a.? D) \$5,950.00	6)
Answer: C Explanation:	A) B) C) D)	<i>b)</i> \$5,175.55	0) \$5,105.00	2) \$5,750.00	
B) The futur C) The futur	ent value of a re value of a s re value of ar	= PV(1 + r)? I single cash flow in Isingle cash flow in In annuity of PV cash In annuity of PV cash	one period's time n flows		7)
Answer: B Explanation:	A) B) C) D)				
A) \$1,200 in B) \$1,250 in C) \$1,300 in	vested at 11.5 vested at 9.95 vested at 10.2	yield the highest fu 5% p.a. compounde 5% p.a. compounde 25% p.a. compound 6 p.a. simple interes	d daily ed monthly	ars?	8)
Answer: D Explanation:	A) B) C) D)				
	8% p.a., with		nsisting of 5 annual paymen occurring in 5 years' time? C) \$2,935.30	ts of \$1,000 with an D) \$5,312.13	9)
Answer: C Explanation:	A) B) C) D)	B) 5,572.15	0) \$2,733.30	D) \$0,312.10	
		w of \$100 in six yea ould a rational inves	rs' time. Asset B provides a c	eash flow of \$100 in four	10)
A) Asset A	set A <i>or</i> asset		B) Asset B	e information provided	
Answer: B	set A UI asset	Б	D) Can't ten nom the	e imormation provided	
Explanation:	A) B) C) D)				

•		\$1,800 to be received in 1		-	11)
A) \$1,643.84 Answer: A Explanation:	A) B) C) D)	B) \$1,501.22	C) \$1,487.60	D) \$1,636.36	
12) What is the pre		the following set of cash t	flows when the discount r	ate is 12% p.a.	12)
Year 2 \$3 Year 3 \$5	00 50	B) \$1,348.59	C) \$1,398.45	D) \$1,332.72	
Answer: A Explanation:	A) B) C) D)	D) \$1,340.37	C) \$1,370.43	D) \$1,332.72	
13) What is the fut semi-annually		\$2,500 invested for 3 years	at an interest rate of 11%	p.a. compounded	13)
A) \$5,611 Answer: D Explanation:	A) B) C)	B) \$4,429	C) \$4,676	D) \$3,447	
be the A) Less than B) Less than C) Greater the D) Equal to E) Greater the Answer: C	e future value or equal to nan nan or equal	of \$1,000 invested at a 10 e in 10 years of \$1,000 inve		=	14)
Explanation:	A) B) C) D)				

15) What simple interest rate per year will give same future value at the end of 3 years as 10% p.a. compounded semi-annually?						
A) 10.00%		B) 11.33%	C) 10.25%	D) 12.50%		
Answer: B						
Explanation:	A)					
·	B)					
	C)					
	D)					
•	esent value	of a perpetuity con	sisting of payments of \$500 wi	th an interest rate of	16)	
10% p.a.? A) \$5,000.00)	B) \$4,000.00	C) \$3,000.00	D) \$2,000.00		
Answer: A	,	<i>D</i>) \$ 1,000.00	σ, ψυ,υυυ.υυ	<i>D</i> , ψ2,000.00		
Explanation:	A)					
·	B)					
	C)					
	D)					
17) Which of these	e answers be	est describes an ord	inary annuity?		17)	
			rring cash flows extending <i>n</i> p	eriods into the future,		
		occurring at the end				
			rring cash flows extending <i>n</i> p	eriods into the future,		
		occurring at the star				
			rring cash flows extending ind	efinitely into the future,		
		occurring at the star				
•		ized regularly occul occurring at the enc	rring cash flows extending ind I of each period	efinitely into the future,		
Answer: A						
Explanation:	A)					
	B)					
	C)					
	D)					
18) What is the fut	ture value o	f \$500 invested for	4 years at a simple interest rate	e of 5% p.a.?	18)	
A) \$525		B) \$575	C) \$550	D) \$600		
Answer: D						
Explanation:	A)					
	B)					
	C)					
	D)					

19) Which of the f	ollowing stat	ements is true?			19)				
A) Simple ii on intere		nterest only on princ	ciple whereas compound in	terest also pays interest					
C) Simple i	nterest relates to future value whereas compound interest relates to present value. nterest applies when an investor receives payment while compound interest applies								
D) Simple i	nterest annua	kes payments. alises rates while con	npound interest allows inter	rest to be stated in any					
time per E) Simple ii		s to present value wh	nereas compound interest re	elates to future value.					
Answer: A									
Explanation:	A)								
	B) C)								
	D)								
	E)								
			o pay a dividend of \$0.11 ev orever, and the Australian t	=	20)				
is 7.29%?				, , , , , , , , , , , , , , , , , , ,					
A) \$2.20		B) \$3.08	C) \$0.60	D) \$1.51					
Answer: B									
Explanation:	A)								
	B) C)								
	D)								
-		_	y consisting of 5 annual pay ccurring in 5 years' time?	ments of \$1,000 with an	21)				
A) \$4,918.64	-	B) \$4,992.71	C) \$2,717.37	D) \$3,696.95					
Answer: C	• >								
Explanation:	A) B)								
	Б) С)								
	D)								
00) \\(\(\) \\(4000 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1	20)				
22) what is the full A) \$816	ture value of	B) \$1,134	years at a simple interest ra C) \$1,040	nte of 2% p.a.? D) \$960	22)				
Answer: D		2, 4.7.0.	3, 4.10.0	2) 4700					
Explanation:	A)								
	B)								
	C)								
	D)								
23) Over a one-ye	ar period, th	e difference betweer	the future value of \$500 in	vested at 15% p.a. simple	23)				
	500 invested		compounded interest will b						
A) \$150.00		B) \$1.50	C) \$15.00	D) Nothing					
Answer: D	۸۱								
Explanation:	A) B)								
	C)								
	D)								

24) The future value of an ordinary annuity consisting of 10 annual payments is \$1593.74. The interest						24)	
	rate is 10% A) \$120.0		ed annually; therefore the B) \$90.00	amount of each payment r C) \$110.00	must be how much? D) \$100.00	_	
	Answer: D						
	Explanation	n: A)					
	-	B)					
		C)					
		D)					
25)) What is the	future value of	\$4,000 invested for 8 year	rs at an annually compoun	ded interest rate of	25)	
	9.25% p.a.?	ratar o varao or	\$ 17000 HTV 00100 TOT 0 Jour	s at an anniamy sompount			
	A) \$8,250).66	B) \$4,074.00	C) \$1,840.06	D) \$8,117.67		
	Answer: D		-, , , ,,	-, + -,	_, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
	Explanation	n: A)					
	LAPIANATION	ı. А) В)					
		C)					
		D)					
		D)					
26)	Mr Riches h	nas inherited a co	ommercial building that i	s expected to yield the foll	owing cash flows for	26)	
_0,	the next 5 y		ommercial banding that i	s expected to yield the foll	owning custi flows for		
		ou. o.					
	Year 1	\$1,250,000					
	Year 2	\$1,300,000					
	Year 3	\$2,450,000					
	Year 4	\$3,560,000					
	Year 5	\$5,820,000					
	However, N	/Ir Riches would	I rather receive the same of	cash flow each year and he	approached CDM		
	Bank Ltd to	sell the building	g in return for a fixed cas	h flow each year for 5 year	s. CDM Bank Ltd		
	has agreed	to this arrangem	ent. If CDM Bank Ltd is	using an interest rate of 10°	% p.a. compounded		
	monthly to	value the buildi	ng how much would the	y be willing to pay Mr Rich	nes each year?		
	A) \$2,663	3,498.55	B) \$2,687,456.15	C) \$2,648,984.45	D) \$2,653,899.02		
	Answer: D						
	Explanation	n: A)					
	•	В)					
		C)					
		Ď)					
		,					
27)) Which of th	ese responses w	ould describe an asset's f	uture value?		27)	
	A) The ac	ccumulated valu	ıe			-	
	B) The va	alue at some poi	nt in the future of a prese	ent amount invested at som	ne interest rate		
	C) The cu	urrent value of c	ne or more future cash p	ayments, discounted at sor	me interest rate		
	D) None	of the above					
	Answer: B						
	Explanation	n: A)					
	1	B)					
		C)					
		D)					

28) What is the future value of an ordinary annuity consisting of 10 annual payments of \$100 with an interest rate of 10% p.a. compounded weekly?						
A) \$1,593.70 B) \$1,632.97 C) \$1,457.90 D) \$1,873.23						
Answer: B						
Explanation: A)						
B) C)						
D)						
20) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	20)					
29) What is the future value of \$100 invested for 10 years at an interest rate of 2% p.a. compounded annually?	29)					
A) \$123.77 B) \$120.00 C) \$122.11 D) \$121.90						
Answer: D						
Explanation: A)						
B) C)						
D)						
20) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	20)					
30) What is the future value of \$100 continuously compounded at a rate of 8% p.a. for 9 months? A) \$106.18 B) \$108.32 C) \$110.56 D) \$102.56	30)					
Answer: A						
Explanation: A)						
B) C)						
D)						
31) What is the future value of \$1,000 continuously compounded at a rate of 10% p.a. for 5 years?	31)					
A) \$1,610.51 B) \$1,648.72 C) \$1,498.43 D) \$1,500.00						
Answer: B						
Explanation: A)						
B) C)						
D)						
32) Which of the following statements is most true?A) There is a relationship between the future value of investment and the effect of compounding	32)					
frequency. At low interest rates, increases in compounding frequency will decrease the future						
value.						
B) There is a relationship between the future value of investment and the effect of compounding						
frequency. At high interest rates, increases in compounding frequency will decrease the future value.						
C) Regardless of the value of the interest rate, increasing the compounding frequency will						
decrease the future value.						
 D) Regardless of the value of the interest rate, increasing the compounding frequency will increase the future value. 						
Answer: D						
Explanation: A)						
_1						
B) C)						

	33) What is the fu	ture valu	e 01 \$200 I	nvested for	io years at	an annuany	y compounded interest ra	ate or	33) <u> </u>
	2% p.a.?								
	A) \$438.00		B) \$2	243.80	C	2) \$254.60	D) \$242.00		
	Answer: B								
	Explanation:	A)							
		B)							
		C)							
		D)							
	34) What is the pr	esent vali	ue of an oi	rdinary anr	nuity consist	ing of 15 ar	nnual payments of \$50 w	ith an	34)
	interest rate of					g o o a.	aa. pajee e. 4ee		
	A) \$575.87			3,486.36		\$1,159.29	D) \$2,326.2	4	
	Answer: D								
	Explanation:	A)							
	·	В)							
		C)							
		D)							
	05) 1441		5 + 0 0 0						2=1
	•			to be receiv	ved in 5 yea	rs' time wh	en the discount rate is 9%	6 p.a.	35)
	compounded A) \$519.95	quarterry		512.65		c) \$509.75	D) \$515.69		
	Answer: B		D) \$.	312.03) \$307.73	D) \$313.09		
	Explanation:	A)							
	Ехріанаціон.	A) B)							
		C)							
		D)							
SHO	RT ANSWER. Wri	te the wo	ord or phra	ase that bes	st complete:	s each state	ment or answers the que	estion.	
	36) Why is it not r	nossihla ta	n datarmir	na tha futur	a valua of a	narnatual	stream of cash flows?	36)	
							ndefinitely and hence ha he perpetuity at any poir		
							ent value of the remainin		
			yond that			p		9	
	Explanation:	_	,	•					
	·								
	•			0 .	•	0 1	ations into China. The	37)	
	, ,	•	•			, ,	An. The forecast cash		
				•		ear 7 cash fl	ow is forecast to extend		
	indefinitely in	to the fut	ure). Ali v	alues are g	iven in A\$.				
	Nanjing Outle	ıt.							
	<u>Ivanjing Outle</u>	<u> </u>							
	Year 1 Y	ear 2	Year 3	Year 4	Year 5	Year 6	Year 7 and beyond		
			\$750,000	\$780,000	\$820,000	\$950,000	\$1,100,000		
	,		,		1 . , ,	1			
	Xi'An Outlet								
	Year 1 Y	ear 2	Year 3	Year 4	Year 5	Year 6	Year 7 and beyond		

The company has determined the appropriate discount rate for the Nanjing outlet is 6.95% p.a. compounded monthly whilst the discount rate for the Xi'An outlet is 6.90% p.a.

\$745,000

\$320,000

\$450,000

\$680,000

\$795,000

\$1,150,000

\$1,250,000

Using this information answer the following questions:

- a) What is the effective annual compound discount rate of both the Nanjing and Xi'An outlets?
- b) What is the maximum amount that XHZ Ltd should pay for each of the retail outlets?
- c) What constant cash flow each year would give the same price for each of the retail outlets as was calculated in part b)? Which outlet generates the highest equivalent annual cash flow?
- d) Which store should XHZ Ltd purchase if the price of the Nanjing outlet was \$13,500,000 and the price of the Xi'An outlet was \$14,800,000?

Answer: a) Using the effective interest rate equation we get the following discount rates for the two outlets:

```
Nanjing outlet = [1 + (0.0695/12)]^{12} - 1 = 7.18\% p.a.
Xi'An outlet = [1 + (0.0690/365)]^{365} - 1 = 7.14\% p.a.
```

b) The maximum amount that XHZ Ltd would be willing to pay is the present value of the cash flows of the two outlets. This is found by discounting the cash flows by the effective rate determined in part a) of the question. The first step is to find the present value of the perpetuity beginning in year 7 and then discount this value and the years 1 through 6 cash flows as single future values.

Nanjing Outlet:

```
PV_6 = 1,100,000/0.0718 = $15,320,334.26
```

```
PV_0 = 540,000/(1.0718) + 670,000/(1.0718)^2 + 750,000/(1.0718)^3 + 780,000/(1.0718)^4 + 820,000/(1.0718)^5 + 950,000/(1.0718)^6 + 15,320,334.26/(1.0718)^6
= $13,599,858.88
```

So the maximum purchase price of the Nanjing outlet would be \$13,599,858.88

Xi'An Outlet:

```
PV_6 = 1,250,000/0.0714 = $17,507,002.80
```

```
PV_0 = 320,000/(1.0714) + 450,000/(1.0714)^2 + 680,000/(1.0714)^3 + 745,000/(1.0714)^4 + 795,000/(1.0714)^5 + 1,150,000/(1.0714)^6 + 17,507,002.80/(1.0714)^6
= $14,706,924.86
```

So the maximum purchase price of the Xi'An outlet would be \$14,706,924.86

c) The constant cash flow each year would give the same price for each of the retail outlets as was calculated in part b) is a perpetuity calculation.

Nanjing Outlet:

```
$13,599,858.88 = A/0.0718
```

A = \$976,469.87

Xi'An Outlet:

\$14,706,924.86 = A/0.0714

A = \$1,050,074.44

Thus the Xi'An store generates the highest equivalent annual cash flow.

d) Given those purchase prices the 'wealth' created by each outlet would be: Nanjing Outlet:

```
13,599,858.88 - 13,500,000 = 599,858.88
```

Xi'An Outlet:

Answer: \$14,706,924.86 - \$14,800,000 = -\$93,075.14

increase the firm's wealth. **Explanation:** 38) You have just won first division in the State lottery, and have a choice between three 38) alternatives as to how your prize is to be received. You can get \$100,000 now, or \$10,000 per year in perpetuity, or \$50,000 now and \$150,000 at the end of 10 years. If the appropriate discount rate is 12% per annum, which option should you choose? Answer: Calculate the present value of each option, and choose the one with the highest present value. Option 1 has a present value of \$100,000 (given); option 2 has a present value of \$10,000/0.12 = \$83,333; option three has a present value of \$50,000 + $150,000[(1-(1+0.12)^{-10}]/0.12 = 98,300$. Therefore the highest present value, and thus the best option to choose, is option 1: take the \$100,000 today. **Explanation:** 39) You are considering the purchase of new car using a financing arrangement. Under the 39) deal you must make a \$10,000 deposit immediately and then monthly payments of \$800 for a period of 48 months. The monthly payments are made at the end of each month. The interest rate is 12% p.a. compounded monthly. What is the effective cost of the car? Answer: You must make an initial payment of \$10,000 plus a series of annuity payments of \$800 per month for 48 months. The present value of the annuity is: The monthly interest rate will be 12/12 or 1% $800 [1 - (1 + 0.01)^{-48}]/0.01 = $30.379.17$ Therefore the effective cost of the car will be \$30,379.17 + \$10,000 = \$40,379.17**Explanation:** 40) An investor has the possibility to deposit \$500 in one of two potential bank accounts. 40) Account A offers an interest rate of 5% p.a. compounded semi-annually whilst Account B offers an interest rate of 4.9% p.a. compounded quarterly. Which will yield the highest future value? Answer: Determine the effective simple interest equivalent of each accounts interest rate and compare them. Account A is giving the depositor an effective simple interest rate of 5.06% [EAR = $(1 + 0.05/2)^2 - 1$] whilst Account B is offering the depositor an effective interest rate of 4.99% [EAR = $(1 + 0.049/4)^4$ - 1]. Hence Account A will yield the highest future value for the depositor. **Explanation:** TRUE/FALSE. Write 'T' if the statement is true and 'F' if the statement is false.

So XHZ Ltd should purchase the Nanjing store as it is the only one which will

False

False

ordinary annuity.

True

True

Answer:

Answer:

Explanation:

Explanation:

41) The present value of an annuity due is always less than the present value of an otherwise identical

42) The effective rate of interest decreases as the compounding frequency increases.

41)

42)

43) An annuity due has cash flows that occur at the end of each period.	43)
Answer: True Selse Explanation:	
44) A deferred annuity is an annuity due that starts at a date more than one period into the future.	44)
Answer: True Selse Explanation:	
45) The future value compounding formula is $FV = PV(1 + r)n$.	45)
Answer: True False Explanation:	
46) Holding all other factors constant, increasing the frequency of the compounding period will increase the future value of an initial investment.	46)
Answer: True False Explanation:	
47) A perpetuity is an annuity that lasts forever.	47)
Answer: True False	
Explanation:	
48) Interest earned on long-term bonds is an example of an annuity.	48)
Answer: True False Explanation:	
49) A bank that offers depositors a 10% p.a. rate compounded semi-annually is using continuous compounding to calculate depositors' interest payments.	49)
Answer: True Selse Explanation:	
50) An ordinary annuity has unequal cash flows.	50)
Answer: True ♥ False Explanation:	
51) The effective simple interest rate will always be higher than the compound interest rate if the compounding interval is greater than one.	51)
Answer: ☑ True False Explanation:	
52) The cash flows of an ordinary annuity occur at the end of each period.	52)
Answer: True False Explanation:	
53) The amount of interest earned each year does not change when interest is compounded.	53)
Answer: True Selse Explanation:	
54) A constant dividend paying share is an example of an ordinary annuity.	54)
Answer: True Selse Explanation:	

55) The future value of a future cash flow will always be lower than the present value if the interest	55)	
rate used is anything other than zero.		

Answer: True False

Explanation:

Answer Key Testname: C2

1) C

2) D

3) D

4) A

5) A

6) C

7) B

8) D

9) C

10) B 11) A

12) A

13) D 14) C

15) B

16) A 17) A

18) D

19) A

20) B

21) C

22) D

23) D 24) D

25) D

26) D 27) B

28) B

29) D

30) A

31) B

32) D

33) B

34) D 35) B

36) By definition a perpetual stream of cash flows continues indefinitely and hence has no future value. We can however determine the value of the perpetuity at any point in the future since its future value will simply be the present value of the remaining cash flows beyond that point.

37) a) Using the effective interest rate equation we get the following discount rates for the two outlets:

```
Nanjing outlet = [1 + (0.0695/12)]^{12} - 1 = 7.18\% p.a.
```

 $Xi'An outlet = [1 + (0.0690/365)]^{365} - 1 = 7.14\% p.a.$

b) The maximum amount that XHZ Ltd would be willing to pay is the present value of the cash flows of the two outlets. This is found by discounting the cash flows by the effective rate determined in part a) of the question. The first step is to find the present value of the perpetuity beginning in year 7 and then discount this value and the years 1 through 6 cash flows as single future values.

Nanjing Outlet:

```
PV_6 = 1,100,000/0.0718 = $15,320,334.26
```

$$PV_0 = 540,000/(1.0718) + 670,000/(1.0718)^2 + 750,000/(1.0718)^3 + 780,000/(1.0718)^4 + 820,000/(1.0718)^5 + 780,000/(1.0718)^4 + 820,000/(1.0718)^4 + 820,000/(1.0718)^5 + 820,000/(1.0718)^6 + 82$$

Answer Key Testname: C2

```
950,000/(1.0718)<sup>6</sup> + 15,320,334.26/(1.0718)<sup>6</sup> = $13,599,858.88
```

So the maximum purchase price of the Nanjing outlet would be \$13,599,858.88

Xi'An Outlet:

 $PV_6 = 1,250,000/0.0714 = $17,507,002.80$

 $PV_0 = 320,000/(1.0714) + 450,000/(1.0714)^2 + 680,000/(1.0714)^3 + 745,000/(1.0714)^4 + 795,000/(1.0714)^5 + 100,000/(1.0714)^6 + 10$

 $1,150,000/(1.0714)^6 + 17,507,002.80/(1.0714)^6$

= \$14,706,924.86

So the maximum purchase price of the Xi'An outlet would be \$14,706,924.86

c) The constant cash flow each year would give the same price for each of the retail outlets as was calculated in part b) is a perpetuity calculation.

Nanjing Outlet:

\$13,599,858.88 = A/0.0718

A = \$976.469.87

Xi'An Outlet:

\$14,706,924.86 = A/0.0714

A = \$1,050,074.44

Thus the Xi'An store generates the highest equivalent annual cash flow.

d) Given those purchase prices the 'wealth' created by each outlet would be:

Nanjing Outlet:

\$13,599,858.88 - \$13,500,000 = \$599,858.88

Xi'An Outlet:

14,706,924.86 - 14,800,000 = -93,075.14

So XHZ Ltd should purchase the Nanjing store as it is the only one which will increase the firm's wealth.

- 38) Calculate the present value of each option, and choose the one with the highest present value. Option 1 has a present value of \$100,000 (given); option 2 has a present value of \$10,000/0.12 = \$83,333; option three has a present value of \$50,000 + \$150,000[(1-(1+0.12)-10]/0.12 = \$98,300. Therefore the highest present value, and thus the best option to choose, is option 1: take the \$100,000 today.
- 39) You must make an initial payment of \$10,000 plus a series of annuity payments of \$800 per month for 48 months. The present value of the annuity is:

The monthly interest rate will be 12/12 or 1%

```
\$800 [1 - (1 + 0.01)^{-48}]/0.01 = \$30,379.17
```

Therefore the effective cost of the car will be \$30,379.17 + \$10,000 = \$40,379.17

- 40) Determine the effective simple interest equivalent of each accounts interest rate and compare them. Account A is giving the depositor an effective simple interest rate of 5.06% [EAR = $(1 + 0.05/2)^2 1$] whilst Account B is offering the depositor an effective interest rate of 4.99% [EAR = $(1 + 0.049/4)^4 1$]. Hence Account A will yield the highest future value for the depositor.
- 41) FALSE
- 42) FALSE
- 43) FALSE
- 44) FALSE

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Answer Key Testname: C2

- **45) TRUE**
- 46) TRUE
- 47) TRUE
- 48) TRUE
- 49) FALSE
- 50) FALSE
- 51) TRUE
- 52) TRUE
- 53) FALSE
- 54) FALSE
- 55) FALSE