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3.	(B)	£1,440,000.
		Explanation
		Step 1:
		Calculate the CDS spreads:
		upfront premium (%) = (credit spread – CDS coupon) x duration
		credit spread = (upfront premium / duration) + CDS coupon
		At initiation: credit spread = $(5/5) + 1 = 2\%$
		1-year later: credit spread = (8/4) + 1 = 3%
		Step 2:
		Compute the approximate profit to the buyer as:
		profit for protection buyer = change in spread x duration
		= (0.03 – 0.02) x 4 x £36,000,000
		profit = £1,440,000
		(Module 29.1, LOS 29.a)
		Related Material
		SchweserNotes - Book 4
4.	(C)	The descript <mark>ion and example of the curve tra</mark> de.
		Explanation
		The definition of the credit curve is accurate.
		The definition of the naked CDS position is also correct. Be careful here been
		the purchaser of the CDS is said to be taking a short position in credit risk.
		seems counter intuitive as we normally describe a purchaser as long and a
		as short.
		The definition of a curve trade is correct, however, the example is incorrect.
		believe that the credit condition of the reference entity will improve over tim
		should purchase protection in a short maturity CDS and sell protection in a maturity CDS
		(Module 29.1 + OS 29.a)
		Related Material
		<u>SchweserNotes - Book 4</u>
5	(B)	restructurina.
-•	(-)	Explanation
		CDS pay off upon occurrence of a credit event, which includes failure to pay
		bankruptcy. Restructuring is not considered a credit event in some countries
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as the United States, where bankruptcy is the preferred route.) Restructuring refers to events such as: reduction or deferral of principal or interest, change in the currency in which principal or interest will be paid, or change in an obligation's seniority or priority.

(Module 29.1, LOS 29.b)

Related Material

SchweserNotes - Book 4

6. (A) 3%

Explanation

To buy 5-year CDS protection, an investor would have to pay upfront the present value of the difference between the 100bps coupon and the current market spread of 175 bps. In this case, the upfront premium would be:

Upfront premium gr. (Credit spread – Fixed coupon) x Duration = (175bps - 100bps) x 4 = 3% of the notional.

(Module 29.2, LOS 29.c)

Related Material

SchweserNotes - Book 4

Peter Nathan an asset manager for a hedge fund and looking to include credit default swaps (CDS) in the portfolio.

Nathan wants to know more about credit default swaps (CDS). He read a report that explained the characteristics of these products and the pricing theory. The report contained the following:

Comment 1:	In a CDS, the protection buyer is long the credit risk of the reference entity.	
Comment 2:	In an index CDS, the lower the credit correlation, the cheaper the premium.	

Nathan owns some intermediate-term bonds issued by ABC Company and has become concerned about the risk of a near-term default, although he is not very concerned about a default in the long term. ABC Company's two-year duration CDS currently trades at 400 bps, and the five-year duration CDS is at 700 bps.

Nathan evaluates the bonds of VAX and believes that some trading opportunities exist. The VAX bonds are currently trading at 260 bps above MRR in an asset swap, while the CDS premium is 200 bps.



7. (C) Only one of the two comments is correct.

Explanation

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Comment 1 is incorrect. It should say: "In a CDS, the protection buyer is short the credit risk of the reference entity." Note the CDS purchaser is typically referred to as the short party. Long and short for a CDS is relative to credit risk rather than buying or selling the instrument.

Comment 2 is correct. An Index CDS provides default cover for an index (basket) of bonds. Higher default correlation will make it more expensive to buy cover.

(Module 29.1, LOS 29.a)

Related Material

SchweserNotes - Book 4

8. (A) \$1.2 million.

Explanation

The investor is long \$3.2 million notional (\$400 million / 125) through the index CDS and is short \$2 million notional through the single-name CDS. His net notional exposure is \$1.2 million.

(Module 29.1, LOS 29.a)

Related Material

SchweserNotes - Book 4

9. (C) Nathan should position himself short in the short term CDS and long in the long term CDS.

Explanation

The investor anticipates a flattening curve and can exploit this possibility by positioning himself short (buying protection) in the two year CDS while going long in the five-year CDS (selling protection).

(Module 29.1, LOS 29.a)

Related Material

SchweserNotes - Book 4

10. (B) long the VAX bonds and buy the CDS.

Explanation

This is a basis trade where the strategy is to exploit price differences between the bond market and the CDS market. The transaction is an arbitrage based on credit risk priced into the two products.

Nathan will pick up 60 bps in yield when it buys the bond and buys the CDS. Nathan is also fully protected against credit risk.

(Module 29.3, LOS 29.e)

Related Material

SchweserNotes - Book 4

Quantitative Methods

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<u>CFA®</u> 11.	(C) \$1,2 million \$198.4 million
	Explanation
	Notional principal attributable to bonds of company $X = $200 \text{ million}/125 = 1.6
	million.
	Payoff on the CDS = 1.6 million - (0.25)(1.6 million) = 1.2 million.
	After default, the CDS continues with (200-1.6) \$198.4 million of notional principal.
	(Module 29.1, LOS 29.a)
	Related Material
	<u>SchweserNotes - Book 4</u>
12. (B)	exposed to the credit risk of the protection seller.
	Explanation
	The credit protection buyer is exposed to the credit risk of the CDS seller. (Note
	that a CDS does not entirely eliminate credit risk; it eliminates the credit risk of the
	reference entity but substitutes it with the credit risk of the CDS seller.) The
	on the financial condition of the reference entity.
	(Module 29.1, LOS 29.a)
	Related Material
	SchweserNotes - Book 4
13. (B)	\$320,000 received by the protection buyer.
	Explanation
	Upfront payment = (CDS spread – CDS coupon) x duration x notional principal
	$\mathbf{d} \mathbf{V} = (0.03 + 0.05) \times 4 \times 4,000,000 = -\$320,000$
	The protection buyer will receive an upfront premium of \$320,000.
	(Module 29.2, LOS 29.C) Related Material
	SchweserNotes - Book 4
	<u>Schweserholes Book i</u>
14. (A)	the only obligation of the reference entity covered by a single-name CDS.
	Explanation
	The reference obligation is not the only instrument covered by the CDS: any debt
	priority of claims or higher relative to the reference obligation is covered A
	CDS's reference obligation is typically a senior unsecured bond. In the case of
	physical settlement, the reference obligation is delivered by the protection buyer
	to the protection seller, in exchange for the CDS notional.
	(Module 29.1, LOS 29.a)
	Related Material
	<u>SchweserNotes - Book 4</u>

Quantitative Methods

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15. (C) sometimes made by the credit protection seller to the credit protection buyer. Explanation

The CDS upfront payment may either be from the protection buyer to the seller, or vice-versa. If the credit spread is equal to the coupon rate, the upfront payment can be zero. CDS are valued by calculating the difference between the present value of the protection leg, versus the present value of the payment leg. The amount of upfront payment depends on the difference between the credit spread on the reference obligation and the CDS coupon rate, and hence need not be higher for a high-yield bond compared to an investment grade bond. (Module 29.2, LOS 29.c)

Related Material

SchweserNotes - Book 4

16. (A) When a credit event has occurred, with physical settlement, the protection seller receives the reference obligation and the protection buyer receives the market value of the reference obligation immediately prior to the credit event. Explanation

> In case of physical settlement, the protection buyer receives the notional principal and not the market value of the bond prior to the credit event.

(Module 29.1, LOS 29.b)

Related Material

<u> SchweserNotes - Book 4</u>

17. (A) whenever the credit quality of the reference entity changes.

Explanation

CDS change in value over their lives as the credit quality of the reference entity changes; this leads to gains and losses for the CDS counterparties. This change in value will happen even though default may not have occurred — and even if it may never occur.

(Module 29.2, LOS 29.c) Related Material SchweserNotes - Book 4

18. (B) A curve steepening trade.

Explanation

A credit curve steepening expectation would entail the credit spread for longer maturities increasing relative to the change in credit spread for shorter maturities. In such a scenario, one would buy protection for longer maturities and sell protection for shorter maturity (i.e., a curve steepening trade).

(Module 29.3, LOS 29.d)

Related Material

SchweserNotes - Book 4

Quantitative Methods



19. (A) Buy the stock of the company and buy CDS protection on company's debt. Explanation

In the case of a leveraged buyout (LBO), the firm will issue a great amount of debt in order to repurchase all of the company's publicly traded equity. This additional debt will increase the CDS spread because default is now more likely. An investor who anticipates an LBO might purchase both the stock and CDS protection, both of which will increase in value when the LBO happens.

(Module 29.3, LOS 29.e)

Related Material

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SchweserNotes - Book 4

20. (B) be set at 1% for investment-grade debt and 5% for high-yield debt.

Explanation

CDS fixed payments are customarily set at a fixed annual rate of 1% for investment-grade debt or 5% for high-yield debt. Fixed payments are made by the CDS buyer to the CDS seller. The protection buyer is obligated to make regular payments until maturity of the CDS or until default (whichever occurs first).

(Module 29.2, LOS 29.c)

Related Material

<u> SchweserNotes - Book 4</u>



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