CHAPTER 2—THE ASSET ALLOCATION DECISION

TRUE/FALSE

1.	1. Experts suggest life insurance covera	ge should be seven to ten times an individual's annual salary.
	ANS: T PTS: 1	
2.	2. Term life insurance provides both a	leath benefit and a savings plan.
	ANS: F PTS: 1	
3.	3. Most experts recommend a cash rese	rve of at least one year's worth of living expenses.
	ANS: F PTS: 1	
4.	4. The spending phase occurs when inv	estors are relatively young.
	ANS: F PTS: 1	
5.	5. The gifting phase is similar to, and n	nay be concurrent with, the spending phase.
	ANS: T PTS: 1	
6.	6. Long-term, high-priority goals include	de some form of financial independence.
	ANS: T PTS: 1	
7.	7. It is not a good idea to get too specif	ic when constructing your policy statement.
	ANS: F PTS: 1	
8.	8. Asset allocation is the process of div	iding funds into different classes of assets.
	ANS: T PTS: 1	
9.	9. The typical investor's goals rarely ch	ange during his/her lifetime.
	ANS: F PTS: 1	
10.	0. Individual security selection is far m	ore important than the asset allocation decision.
	ANS: F PTS: 1	
11.	1. Return is the only important consider	ration when establishing investment objectives.
	ANS: F PTS: 1	
12.	2. In constructing the portfolio, the man	nager should maximize the investor's risk level.
	ANS: F PTS: 1	

	ANS: F	PTS: 1
14.	An appropriate investigation of	tment objective for a typical 25-year-old investor is a low-risk strategy, such as or current income.
	ANS: F	PTS: 1
15.	Investment planning	is complicated by the tax code.
	ANS: T	PTS: 1
16.	Average tax rate is d	efined as total tax payment divided by total income.
	ANS: T	PTS: 1
17.	The portfolio mixes	of institutional investors around the world are approximately the same.
	ANS: F	PTS: 1
18.	The ability to retire a	at a certain age is a typical example of a long-term, lower-priority goal.
	ANS: F	PTS: 1
19.	It is essential that bo portfolio.	th the client and the portfolio manager agree on an appropriate benchmark
	ANS: T	PTS: 1
20.	An example of a union of a fiduciary or trus	que need in an investment policy statement is related to the legal responsibilities tee.
	ANS: F	PTS: 1
21.	Equity allocations of	pension funds in Japan and Germany are similar to those in the United States.
	ANS: F	PTS: 1
22.	Investing 30 to 40 per they match funds.	ercent of your retirement funds in the company you work for is reasonable when
	ANS: F	PTS: 1
23.	The majority of a per	nsion fund's return is explained by asset allocation.
	ANS: T	PTS: 1
MUL	TIPLE CHOICE	
1.	The current outlay of a. Asset managements. Portfolio managements.	

13. Risk tolerance is exclusively a function of an individual's psychological makeup.

	e. Insurance.				
	ANS: E	PTS:	1	OBJ:	Multiple Choice
2.	In an investment poli a. risk and return b. risk c. return d. time horizon e. liquidity needs	cy stater	ment the objec	tives of	an investor are expressed in terms of
	ANS: A	PTS:	1	OBJ:	Multiple Choice
3.					y-to-middle earning years attempt to accumulate lucation or down payment on a home.
	ANS: A	PTS:	1	OBJ:	Multiple Choice
4.	Which of the following a. Discovery phase b. Accumulation phase. Consolidation phase e. Gifting phase	nase	t a life cycle pl	hase?	
	ANS: A	PTS:	1	OBJ:	Multiple Choice
5.	Which of the following a. Develop a policy b. Study current finc. Construct the pord. Monitor investor e. Sell all assets and	stateme ancial ar rtfolio. 's needs	ent. nd economic co and market co	ondition	s.
	ANS: E	PTS:	1	OBJ:	Multiple Choice
6.	The first step in the in a. Objective statement. b. Policy statement. c. Financial statement. d. Statement of cash. e. Statement of cash.	ent. ent. h needs.	nt process is th	ne deve	lopment of a(n)
	ANS: B	PTS:	1	OBJ:	Multiple Choice
7.	Which of the following a. Capital preservate b. Capital appreciate c. Current income	ion	t considered to	be an	investment objective?

c. Minimizing risk.d. Loss control.

	d. Total retue. None of t		is, all are consi	dered ii	nvestment objectives)
	ANS: E	PTS:	1	OBJ:	Multiple Choice
8.	established be a. Investment b. Investment c. Investment	efore returns ob nt requirements nt constraints nt rewards nt objectives	jectives can be		nd risk. An investor's tolerance for risk must be
	ANS: D	PTS:	1	OBJ:	Multiple Choice
9.	exceed the rata. Capital prob. Capital apc. Portfolio d. Value add	te of inflation. reservation ppreciation growth	tive for investo	rs who	want their portfolio to grow in real terms, i.e.,
	ANS: B	PTS:	1	OBJ:	Multiple Choice
10.	increase(s) as a. Liquidity b. Time hor c. Liquidati d. Liquidati	one approache needs izons	s the later stage	es of the	n quickly and at a fair market price and often e investment life cycle. Multiple Choice
11.		can be measure e .rk k e point	d.		which a portfolio's or portfolio manager's Multiple Choice
12.	b. Concernec. Concerne	ess of dividing ed with returns ed with the risk ed with the related	variability. associated with	n differe	ent assets.
	ANS: E	PTS:	1	OBJ:	Multiple Choice
13.	The asset allo	ocation decision	must involve	a consid	deration of

a. Cultural differences.

	b. The objectives sc. The types of assd. The risk associae. All of the above	sets that are apported with differ	propriate for the	e investor.	
	ANS: E	PTS: 1	OBJ:	Multiple Choice	
14.				ion explains% of the variation in fun urns for a particular fund over time.	d returns
	ANS: E	PTS: 1	OBJ:	Multiple Choice	
15.	Once the portfolio is a. Rebalanced. b. Recycled c. Reinvested d. Monitored. e. Manipulated.	s constructed, i	it must be contin	nuously	
	ANS: D	PTS: 1	OBJ:	Multiple Choice	
16.		tal gains are ta l gains are taxa estments are a risons should b	xable. uble. ttractive to indiv e made on an eq	viduals with high tax liabilities. quivalent tax basis. tments.	
	ANS: A	PTS: 1	OBJ:	Multiple Choice	
17.		sed by the orig		sold for more than its basis (the value of the sold have been sold for more than its basis (the value of the sold for m	
	ANS: A	PTS: 1	OBJ:	Multiple Choice	
18.	b. The only way to c. After adjusting d. An asset allocat commitment to value over time. e. None of the about	exempt investorns. o maintain pure for taxes, long ion decision for common stock .	rs and tax-deferr chasing power ov- term bonds cons or a taxable portf as may make it di	red accounts, annual tax payments increase ver time is to invest in bonds. assistently outperform stocks. folio that does not include a substantial difficult for the portfolio to maintain real	e
	ANS: D	PTS: 1	OBJ:	Multiple Choice	

19.	a. Helps investb. Create a star	instrument to judge risk and b	vestment	
	ANS: D	PTS: 1	OBJ:	Multiple Choice
20.	allocation strates a. 100% stocks b. 100% cash c. 30% cash, 5	gy would be s 0% bonds, and 20% stoc 0% bonds, and 60% stoc	ks	s and lower risk tolerance, an appropriate asset
	ANS: C	PTS: 1	OBJ:	Multiple Choice
21.	strategy would be a. 100% stocks b. 100% cash c. 30% cash, 5	oe s 0% bonds, and 20% stoc 0% bonds, and 60% stoc	ks	higher risk tolerance, an appropriate asset allocat
	ANS: D	PTS: 1	OBJ:	Multiple Choice
22.	allocation strates a. 100% stocks b. 30% cash, 5	gy would be s 0% bonds, and 20% stoc 0% bonds, and 60% stoc and 50% stocks	ks	d higher risk tolerance, an appropriate asset
	ANS: A	PTS: 1	OBJ:	Multiple Choice
23.	allocation strates a. 100% stocks b. 40% cash ar	gy would be s nd 60% stocks 0% bonds, and 20% stoc and 50% stocks		d moderate risk tolerance, an appropriate asset
	ANS: E	PTS: 1	OBJ:	Multiple Choice
24.	strategy would by a. 100% cash b. 30% cash, 5		ks	higher risk tolerance, an appropriate asset allocat

		% cash, 40% 00% bonds	bonds, a	ind 50%	SIOCKS		
	ANS:	C	PTS:	1	OBJ:	: Multiple Choice	
25.	allocat a. 10 b. 30 c. 20 d. 10	n investor with tion strategy v 10% cash 10% cash, 50% 10% cash, 40% 10% cash, 30% 100% bonds	vould be bonds, a bonds, a	and 20% and 40%	o stocks	d moderate risk tolerance, an appropriate asset	
	ANS:	В	PTS:	1	OBJ:	: Multiple Choice	
26.	\$5,000 a. Di b. Ac c. Co d. Sp		count ar e hase hase			a mortgage and no other debt. John typically saves a company pension. John is most likely in the:	
	ANS:	C	PTS:	1	OBJ:	: Multiple Choice	
27.	a. Lib. Ric. Tid. Ta	n of the follow quidity needs isk tolerance me horizon ax concerns egal factors	ring is no	ot a typi	cal portfolio c	constraint?	
	ANS:	В	PTS:	1	OBJ:	: Multiple Choice	
28.	additional a. Carb. Carb. Carb. Carb. Carb. Carb. Carb.	n of the follow on to capital g apital apprecia apital preserva eturn preserva urrent income otal return	ains? ation ation	egies se	eeks to increas	se the portfolio value by reinvesting current income in	a
	ANS:	D	PTS:	1	OBJ:	: Multiple Choice	
9.	explai a. M b. St c. M d. As	rch from the 1 ned by: arket timing ock selection anager selectionsset allocation ll of the above	on	the 199	Os found that c	over 90 percent of a fund's returns over time is	

	If Taxable In	come	Then	The Tax is		
	Is Over But Not Over			This Amount	Plus This %	Of The Excess Over
Single	\$0	\$7,150		0	10%	0
	\$7,150	\$29,050		715	15%	\$7,150
	\$29,050	\$70,350		\$4,000	25%	\$29,050
	\$70,350	\$146,750		\$14,325	28%	\$70,350
	\$146,750	\$319,100		\$35,717	33%	\$146,750
	\$319,100	-		\$92,592.50	35%	\$319,100
			_			
Married	\$0	\$14,300		0	10%	0
Filing	\$14,300	\$58,100		1430	15%	\$14,300
Jointly	\$58,100	\$117,250		\$8,000	25%	\$58,100
	\$117,250	\$178,650		\$22,787.50	28%	\$117,250
	\$178,650	\$319,100		\$39,979.50	33%	\$178,650
	\$319,100	-		\$86,328	35%	\$319,100

- 30. Refer to Exhibit 2.1. What is the marginal tax rate for a single individual with taxable income of \$85,000?
 - a. 15%
 - b. 25%
 - c. 28%
 - d. 33%
 - e. 35%

ANS: C

Marginal tax rate = 28%

PTS: 1 OBJ: Multiple Choice Problem

- 31. Refer to Exhibit 2.1. What is the tax liability for a single individual with taxable income of \$85,000?
 - a. \$23,800
 - b. \$18,427
 - c. \$24,958
 - d. \$16,867
 - e. \$19,650

ANS: B

\$14,325 + 0.28(\$85,000 - \$70,350) = \$18,427 (tax bill)

PTS: 1 OBJ: Multiple Choice Problem

- 32. Refer to Exhibit 2.1. What is the average tax for a single individual with taxable income of \$85,000?
 - a. 13.57%
 - b. 15.68%
 - c. 21.68%
 - d. 25.74%
 - e. 29.55%

ANS: C

18,427/\$85,000 = 21.68% (average tax rate)

PTS: 1 OBJ: Multiple Choice Problem

- 33. Refer to Exhibit 2.1. What is the tax liability for a married couple filing jointly with taxable income of \$125,000?
 - a. \$23,800
 - b. \$18,427
 - c. \$24,958
 - d. \$16,867
 - e. \$19,650

ANS: C

22,787.50 + 0.28(125,000 - 117,250) = 24,958

PTS: 1 OBJ: Multiple Choice Problem

- 34. What would the equivalent taxable yield be on an investment that offers a 6 percent tax exempt yield? Assume a marginal tax rate of 28%.
 - a. 0.125%
 - b. 7.20%
 - c. 6.48%
 - d. 8.33%
 - e. 32.14%

ANS: D

Equivalent taxable yield = .06/(1 - .28) = .06/.72 = 8.33%

PTS: 1 OBJ: Multiple Choice Problem

- 35. What would the after-tax yield be on an investment that offers a 6 percent fully taxable yield? Assume a marginal tax rate of 31%.
 - a. 2.79%
 - b. 6.48%
 - c. 4.14%
 - d. 7.20%
 - e. 12.50%

ANS: C

After-tax yield = Before-tax yield (1 - Tax Rate) = 6%(1 - .31) = 4.14%

PTS: 1 OBJ: Multiple Choice Problem

- 36. The future value of \$50,000 invested today, at the end of 10 years assuming an interest rate of 7.5% per year, with semiannual compounding, is
 - a. \$104,407.60
 - b. \$103,051.58
 - c. \$123,510.52
 - d. \$210,673.43
 - e. \$105,117.46

ANS: A

 $FV = 50,000(1 + .0375)^{20} = $104,407.60$

PTS: 1 OBJ: Multiple Choice Problem

37. Assume that you invest \$750 at the end of each quarter for the next 20 years in a mutual fund. The annual rate of interest that you expect to earn in this account is 5.25%. The amount in the account at the end of 20 years is

a. \$60,000.00

b. \$105,039.84

c. \$37,009.35

d. \$123,510.52

e. \$115,637.37

ANS: B

$$FV = 750 \left(\frac{(1 + .013125)^{80} - 1}{.013125} \right) = $105,039.84$$

PTS: 1 OBJ: Multiple Choice Problem

38. Assume that you invest \$1250 at the end of each of the next 15 years in a mutual fund. You currently have \$10,000 in the mutual fund. The annual rate of interest that you expect to earn in this account is 4.35%. The amount in the account at the end of 15 years is

a. \$58,940.30

b. \$28,750.00

c. \$37,009.35

d. \$44,630.81

e. \$25,690.50

ANS: D

$$FV = 1250 \left(\frac{(1+.0435)^{15} - 1}{.0435} \right) + 10,000(1+.0435)^{15} = $44,630.81$$

PTS: 1 OBJ: Multiple Choice Problem

39. Someone in the 15 percent tax bracket can earn 8 percent annually on his investments in a tax-exempt IRA account. What will be the value of a \$10,000 investment after 5 years (assuming annual compounding)?

a. \$6,805

b. \$14,693

c. \$15,528

d. \$20,114

e. \$50,000

ANS: B

$$FV = 10,000(1 + .08)^5 = $14,693$$

PTS: 1 OBJ: Multiple Choice Problem

40. Suppose the 8 percent investment of the previous problem is taxable rather than tax-deferred. What will be the after-tax value of his \$10,000 investment after 5 years (assuming annual compounding)?

a. \$10,680

b. \$11,765

c. \$13,895

d. \$14,693

e. \$15,528

ANS: C

After-tax yield = Before-tax yield
$$(1 - \text{Tax rate})$$

= $8\% (1 - .15) = 6.8\%$

 $10,000(1+0.068)^5 = 13,895$

PTS: 1 OBJ: Multiple Choice Problem

- 41. An individual in the 36% tax bracket invests \$5,000 in a tax-exempt IRA. If the investment earns 10% annually, what will be the value of the IRA after five years?
 - a. \$6,600
 - b. \$6,818
 - c. \$7,500
 - d. \$8,053
 - e. \$10,879

ANS: D

The total amount is not adjusted for taxes or inflation.

 $FV = \$5,000(1 + 0.10)^5 = \$8,052.55$

PTS: 1 OBJ: Multiple Choice Problem

- 42. An individual in the 15% tax bracket has \$10,000 invested in a tax-exempt IRA account. If the individual earns 8% annually before taxes and inflation is 2.5% per year, what is the real value of the investment in 20 years?
 - a. \$23,211
 - b. \$28,467
 - c. \$29,178
 - d. \$37,276
 - e. \$46,610

ANS: B

The annual real return adjusted for inflation is computed as follows:

(1.08)/(1.025) -1 = 5.37%.

 $FV = \$10,000(1 + 0.0537)^{20} = \$28,466.86$

PTS: 1 OBJ: Multiple Choice Problem

- 43. An individual in the 36% tax bracket has \$20,000 invested in a tax-exempt account. If the individual earns 10% annually before taxes and inflation is 3.0% per year, what is the real value of the investment in 10 years?
 - a. \$31,000
 - b. \$33,200
 - c. \$38,614
 - d. \$39,343
 - e. \$47,823

ANS: (

The annual real return adjusted for inflation is computed as follows:

$$(1.10)/(1.03) - 1 = 6.8\%$$
.

 $FV = \$20,000(1+0.068)^{10} = \$38,613.80$

PTS: 1 OBJ: Multiple Choice Problem

- 44. You currently have \$150,000 in an IRA designated for retirement. If you save an additional \$100 at the end of every month and expect to earn an annual return of 12%, how much do you expect to have in the IRA in 10 years?
 - a. \$467,632

b. \$518,062

c. \$732,546

d. \$949,328

e. \$1,215,234

ANS: B

$$FV = 100 \left(\frac{(1+.01)^{120} - 1}{.01} \right) + 150,000(1+.01)^{120} = $518,061.90$$

PTS: 1 OBJ: Multiple Choice Problem