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# Chapter 2 Foundations of Recruitment and Selection I: Reliability and Validity

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1.	<ul> <li>What is the first step in an organization's selection process?</li> <li>a. reviewing the candidate pool for the job position</li> <li>b. identifying knowledge, skills, abilities, and other attributes for the job position</li> <li>c. acquiring job analysis information for the job position</li> <li>d. developing performance indicators and job dimension for the job position</li> </ul>							
	ANS: B PTS: 1 REF: 29 OBJ: 1 BLM: Remember							
2.	<ul> <li>Which of the following statements applies to a test by the UK Department of Work and Pensions (DWP), as described in the "Sham Psychometric Test" controversy?</li> <li>a. The test was appropriate because it had a valid goal: to help people find jobs.</li> <li>b. The test was appropriate because it came from a larger test that had been validated by DWP.</li> <li>c. The test was inappropriate because it showed strengths but not weaknesses.</li> <li>d. The test was inappropriate because it had not been validated for use by DWP.</li> </ul>							
	ANS: D PTS: 1 REF: 28 OBJ: 5 BLM: Higher Order							
3.	For what is job analysis information used?  a. to ensure reliability throughout the selection process  b. to identify both the performance domain and the knowledge, skills, abilities, and other attributes linked to job performance  c. to ensure the selection process is fair, equitable, and unbiased  d. to ensure utility throughout the recruitment and selection process							
	ANS: B PTS: 1 REF: 30 OBJ: 1 BLM: Higher Order							
4.								
	ANS: A PTS: 1 REF: 31–32 OBJ: 2 BLM: Higher Order							

- 5. What is the best way for HR professionals to make sure that their selection decisions meet the standards set by courts and tribunals?
  - a. Completely eliminating such factors as age, gender, and disability when considering candidates
  - b. thoroughly analyzing required KSAO's for each position to be filled
  - c. avoiding making hiring decisions
  - d. using valid and reliable science-based methods when choosing BFOR's

OBJ: 5

REF: 30

ANS: B

PTS: 1

	BLM: Higher Order				
6.	residents, are at least	18 years of age, and lould these requirements	nave a valid driver's li	vare Canadian citizen of cence and no record of c	•
	ANS: B BLM: Higher Order	PTS: 1	REF: 33	OBJ: 1	
7.	<ul><li>a. The applicant mu</li><li>b. The applicant mu</li><li>c. The applicant mu</li></ul>	ust meet the vision sta ust have successfully out ust be a Canadian citiz	zen or landed immigran	Police Service.  of secondary school educ	
	ANS: B BLM: Higher Order	PTS: 1	REF: 33	OBJ: 1	
8.	Which of the following a. fit with organizate b. comfort with the c. consistency of the d. flexibility and sp	tional culture process le process	use practice-based sel	lection approaches?	
	ANS: C BLM: Remember	PTS: 1	REF: 35	OBJ: 3	
9.	<ul><li>a. a significant num</li><li>b. a defensible syste</li><li>c. a flexible, quick</li></ul>	utcome of a science-baser of qualified appliem with effective emprocess that fits the or comfortable and flexilostics.	oloyees ganization's culture	s?	
	ANS: B BLM: Remember	PTS: 1	REF: 35	OBJ: 4	
10.	<ul><li>a. the effective use</li><li>b. a defensible syste</li><li>c. increased product</li></ul>	utcome of a practice-be of structured and consem with effective empetivity and competitive gation and marginal estimates.	oloyees eness	s?	
	ANS: D BLM: Remember	PTS: 1	REF: 35	OBJ: 4	
11.	What is a defining cha. It is defensible. b. It is intuitive.	naracteristic of a pract	ice-based selection pro	ocess?	
	2-2			Copyright © 2016 Ne	lson Education Ltd

12. What is a defining characteristic of a science-based selection process?  a. It is flexible. b. It is intuitive. c. It is rational. d. It is subjective.  ANS: C. PTS: 1 REF: 35 OBJ: 4 BLM: Remember  13. What concept is defined by the following: "systematic errors in measurement, or inferences made fro those measurements, that are related to different identifiable group membership characteristics such a age, sex, or race?" a. discrimination b. unfairness c. bias d. validity  ANS: C. PTS: 1 REF: 55 OBJ: 2 BLM: Remember  14. What is the final step in the selection process? a. developing performance indicators for the individuals who were hired with the process b. gathering feedback from the individuals who were hired with the process c. demonstrating that hiring decisions based on the selection system have utility d. demonstrating that hiring decisions based on the selection system have utility d. demonstrating that hiring decisions based on the selection system are reliable  ANS: C. PTS: 1 REF: 30 OBJ: 1 BLM: Remember  15. Which of the following terms refers to relationships between observations? a. a variance b. a construct c. a concept d. a validation  ANS: B. PTS: 1 REF: 36 OBJ: 2 BLM: Remember  16. Which of the following is NOT a statement about reliability? a. Reliability is the degree that observed scores are free from random errors. c. Reliability is the amount of systemic errors relative to their true score. d. Reliability is the consistency of a set of measurements over time.  ANS: C. PTS: 1 REF: 37 OBJ: 2 BLM: Remember		ANS: B BLM: Remember	PTS:	1	REF:	35	OBJ:	4
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<ul> <li>a. a variance</li> <li>b. a construct</li> <li>c. a concept</li> <li>d. a validation</li> <li>ANS: B PTS: 1 REF: 36 OBJ: 2</li> <li>BLM: Remember</li> <li>16. Which of the following is NOT a statement about reliability?</li> <li>a. Reliability is an indication of the stability of measurements.</li> <li>b. Reliability is the degree that observed scores are free from random errors.</li> <li>c. Reliability is the amount of systemic errors relative to their true score.</li> <li>d. Reliability is the consistency of a set of measurements over time.</li> <li>ANS: C PTS: 1 REF: 37 OBJ: 2</li> </ul>			PTS:	1	REF:	30	OBJ:	1
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<ul> <li>a. Reliability is an indication of the stability of measurements.</li> <li>b. Reliability is the degree that observed scores are free from random errors.</li> <li>c. Reliability is the amount of systemic errors relative to their true score.</li> <li>d. Reliability is the consistency of a set of measurements over time.</li> <li>ANS: C PTS: 1 REF: 37 OBJ: 2</li> </ul>			PTS:	1	REF:	36	OBJ:	2
	16.	<ul><li>a. Reliability is an</li><li>b. Reliability is the</li><li>c. Reliability is the</li></ul>	indicati degree amoun	on of the stabilithat observed stof systemic er	ity of m scores a rors rel	neasurements. re free from rar ative to their tru	ie scor	
			PTS:	1	REF:	37		OBJ: 2

c. It is system-wide.d. It is structured.

17. What concept is defined as the degree to which observed scores are free from random measurement

	errors? a. validity b. fairness c. error score d. reliability		
	ANS: D PTS: 1 BLM: Remember	REF: 37	OBJ: 2
18.	Which of the following concept observed score on any particular a. measurement error b. standard deviation c. lack of standardization d. test and retest		cal difference between an individual's idual's true score?
	ANS: A PTS: 1 BLM: Remember	REF: 40	OBJ: 3
19.	<ul> <li>What do you get when you squa.</li> <li>a. the proportion of consistent measured characteristic</li> <li>b. the proportion of error in the characteristic</li> <li>c. the proportion of measurem on the measured characteristic</li> <li>d. the proportion of variance is measured characteristic</li> <li>ANS: D PTS: 1</li> <li>BLM: Remember</li> </ul>	ey in the true scores attributed the error scores attributed to true then error in the observed scoretic	d to true differences on the ue differences on the measured ores attributed to true differences
20.	An HRM used the identical mergroup of people on different occa. test and retest b. alternate forms c. internal consistency d. inter-rater reliability	casions. What method of esti	
	BLM: Higher Order	REF: 43	OBJ: 4
21.	<ul><li>a. A test can be reliable but no</li><li>b. Construct validity is another</li></ul>	ot valid. or term for content validity. of test takers to a particular te	st.
	ANS: A PTS: 1 BLM: Higher Order	REF: 52	OBJ: 4

22.	<ul> <li>To test validity, a content sampling strategy is often applied to the selection process. Which of the following is NOT a step in this content sampling strategy?</li> <li>a. A scoring scheme is developed for the selection assessments.</li> <li>b. Tasks of the target position are identified by job experts.</li> <li>c. Job experts independently rate the reliability of each task.</li> <li>d. Job experts evaluate the relationship between performance and job success.</li> </ul>						
	ANS: C BLM: Higher Order	PTS: 1	REF:	50	OBJ:	4	
23.	In their mid-1970s reidea that a validity coa. validity generalizes. meta-analysis c. range restriction d. attenuation	pefficient is specific t				Hunter use to challenge the sured?	
	ANS: B BLM: Higher Order	PTS: 1	REF:	50	OBJ:	3	
24.	What concept is defined with measurement error a. sampling error b. regression c. attenuation d. differential predictions.	rror of the predictor, t		-	the vali	dity coefficient associated	
	ANS: C BLM: Remember	PTS: 1	REF:	52	OBJ:	4	
25.	Which of the following subgroups?  a. subgroup differe b. subgroup bias c. subgroup normind. subgroup fairnes	ntial	the use of	different selec	ction ru	iles for different identifiable	
	ANS: C BLM: Remember	PTS: 1	REF:	56	OBJ:	5	
26.	b. Wonderlic Perso	ical Comprehension t onnel test Service physical abilit	test	g biased in favo	our of r	males?	
	ANS: A BLM: Higher Order	PTS: 1	REF:	56	OBJ:	5	

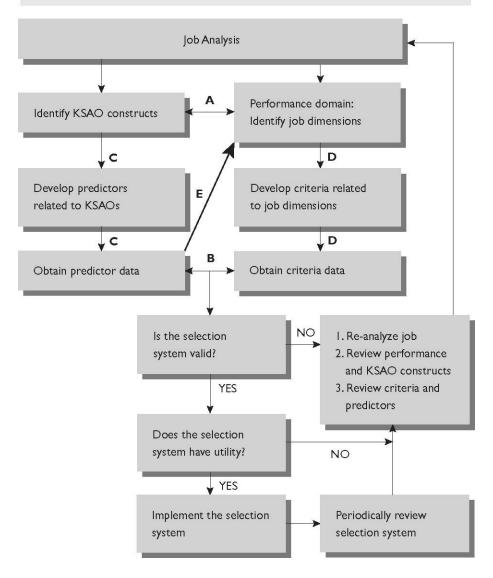
21.	<ul> <li>which of the following is NOT a broad category of factors that affect reliability?</li> <li>a. lack of standardization</li> <li>b. temporary individual characteristics</li> <li>c. seasonality</li> <li>d. chance</li> </ul>						
	ANS: C PTS: 1 BLM: Remember	1 R	REF: 41	OBJ: 3			
28.	To estimate reliability, it is im measures. Which of the follow a. internal consistency b. test and retest c. intra-rater agreement d. alternate forms			o approximations of parallel			
	ANS: C PTS: 1 BLM: Remember	l R	REF: 43	OBJ: 3			
29.	9. What could an employer do to establish concurrent validity?  a. compare test results with performance ratings of existing employees  b. compare test results with employee performance ratings after one year on the job  c. compare test results with results of previously validated test  d. have experts determine whether the test accurately measures the current content of the job						
	ANS: A PTS: 1 BLM: Higher Order	1 R	REF: 44	OBJ: 4			
30.	<ul><li>What concept is defined as the</li><li>a. subgroup prediction</li><li>b. differential prediction</li><li>c. systematic prediction</li><li>d. performance prediction</li></ul>	e predicted avera	age performance scor	re of a subgroup?			
	ANS: B PTS: 1 BLM: Remember	1 R	REF: 56	OBJ: 5			
31.	Which of the following is NO a. standardized test administrates the test reliability c. validity evidence d. careful test development		ality of a testing prod	cedure?			
	ANS: C PTS: 1 BLM: Remember	1 R	REF: 53	OBJ: 3			

# Chapter 2 Foundations of Recruitment and Selection I

32.	What two strategies are typical methods that a researcher uses to acquire evidence for test-criterion relationships?  a. criterion-related and correlation  b. inference and intuition  c. differential and selective  d. predictive and concurrent				
	ANS: D PTS: 1 REF: 44 OBJ: 4 BLM: Remember				
<ul> <li>33. The head of HR at Megatherium Industries wants to use a cognitive ability test for approach an agement position. If she wants to follow science-based methods in selection, but it run a validation study, what approach should she use to test validation?</li> <li>a. use of best practices</li> <li>b. comparison of test results of high-performing and low-performing employees</li> <li>c. comparison of test questions with job content</li> <li>d. use of validity generalization</li> </ul>					
	ANS: D PTS: 1 REF: 49 OBJ: 4 BLM: Higher Order				
34.	<ul> <li>Which of the following statements is true?</li> <li>a. Validity concepts in selection apply only to test scores.</li> <li>b. U.S. Labor Department guidelines suggest that tests with validity coefficients above .35 are very beneficial.</li> <li>c. U.S. Labor Department guidelines suggest that only tests with reliability coefficients above .55 should be used in selection.</li> <li>d. Employment tests have been shown to have no adverse impact on applicants.</li> </ul>				
	ANS: B PTS: 1 REF: 53 OBJ: 4 BLM: Higher Order				

FIGURE 2.1

Job Analysis, Selection, and Criterion Measurements of Performance: A Systems Approach



- 35. Refer to Figure 2.1. What occurs if the selection system does not have utility?
  - a. The job should be reanalyzed.
  - b. The selection system should be reviewed.
  - c. The selection system should be implemented.
  - d. The selection system should be validated.

ANS: A PTS: 1 REF: 30 OBJ: 1

BLM: Higher Order

36.	Refer to Figure 2.1.	What relationship	n does line A	A represent?
<i>-</i> .	Troibi to I ignit 2.1.	" IIw I olwilollolli	p aces mile i	i i opi obolit.

- a. the relationship among job analysis, KSAOs, and performance management
- b. the relationship between the performance domain and the KSAOs that contribute to the job performance
- c. the relationship between the KSAOs and performance competencies
- d. the relationship among job analysis, KSAOs, and performance criteria and dimensions

ANS: B PTS: 1 REF: 30 OBJ: 1

BLM: Higher Order

# 37. Refer to Figure 2.1. What process does line D represent?

- a. validating the job analysis and identifying performance criteria
- b. clarifying the performance domain and utilizing the knowledge, skills, abilities, and other attributes' constructs
- c. defining the performance domain and developing related criterion measurements
- d. validating the selection system

ANS: C PTS: 1 REF: 30 OBJ: 1

BLM: Higher Order

## 38. Refer to Figure 2.1. What process does line C represent?

- a. validating the job analysis, knowledge, skills, abilities, and other attributes, and performance domain
- b. utilizing the knowledge, skills, abilities, and other attributes' constructs to clarify the performance dimensions
- c. translating the knowledge, skills, abilities, and other attributes' constructs into valid measurable predictors
- d. establishing criterion-related validity

ANS: C PTS: 1 REF: 30 OBJ: 1

BLM: Higher Order

## 39. Refer to Figure 2.4. What process does line E represent?

- a. validating the job analysis, knowledge, skills, abilities, and other attributes and performance domain
- b. predicting which applicants will be successful in their position
- c. utilizing the knowledge, skills, abilities, and other attributes constructs to clarify the performance dimensions
- d. translating the knowledge, skills, abilities, and other attributes constructs into valid measurable predictors

ANS: B PTS: 1 REF: 30 OBJ: 1

BLM: Higher Order

# TRUE/FALSE

1.	abilities, and other attributes to perform the job being filled.						
	ANS: T	PTS:	1	REF:	32	OBJ:	1
2.	The goal of selection job.	is to id	entify job cand	idates v	who have those	attribu	tes required for success on the
	ANS: T	PTS:	1	REF:	32	OBJ:	1
3.	Employers must kno selection processes a		-	sional s	tandards in ord	er to in	crease the likelihood that their
	ANS: T	PTS:	1	REF:	34	OBJ:	1
4.	If an employer does about an applicant th						a still make a correct guess
	ANS: T	PTS:	1	REF:	34	OBJ:	3
5.	An employer's employer	oyment	decisions must	be rati	onal and intuiti	ve.	
	ANS: F	PTS:	1	REF:	35	OBJ:	1
6.	An employer's recruithe knowledge, skills						re an applicant who possesses rm the job.
	ANS: T	PTS:	1	REF:	32	OBJ:	1
7.	Hiring decisions must reliability and validit		fensible; they n	nust me	et legal require	ments a	and professional standards of
	ANS: T	PTS:	1	REF:	35	OBJ:	3
8.	The HR manager foc	uses on	one variable, ı	isually .	job performanc	e, in th	e selection process.
	ANS: F	PTS:	1	REF:	30	OBJ:	4
9.	The reliability coeffic	cient is	the degree that	true sc	ores correlate w	vith one	e another.
	ANS: F	PTS:	1	REF:	39	OBJ:	2
10.	Measurement error c score on any particul						een an individual's observed
	ANS: T	PTS:	1	REF:	40	OBJ:	3
11.	When candidates are	asked o	different question	ons froi	m one interview	to the	other, validity is reduced.

#### Chapter 2 Foundations of Recruitment and Selection I

ANS: F PTS: 1 REF: 41

OBJ: 4

12. Validity is the degree to which observed scores are free from random measurement errors.

ANS: F

PTS: 1

REF: 45

OBJ: 2

13. The principle that every test taker should be assessed in an equitable manner is known as equity.

ANS: F

PTS: 1

REF: 56

OBJ: 5

14. Issues of fairness need to be determined statistically.

ANS: F

PTS: 1

REF: 56

OBJ: 5

15. Achieving fairness often requires compromise between conflicting interests.

ANS: T

PTS: 1

REF: 56

OBJ: 5

### **SHORT ANSWER**

1. How does science affect the selection process?

#### ANS:

To remove the guessing in selection, a selection system must be built on sound empirical support, be reliable and valid, and operate within a legal context.

- Hiring decisions must be defensible; they must meet legal requirements and professional standards of reliability and validity.
- The measures used to make the hiring decisions must be stable and provide job-related information.
- Employment decisions must be valid and meet legal requirements.
- Refer to Figure 2.1, Job Analysis, Selection, and Criterion Measurements of Performance: A Systems Approach, on page 30, and Table 2.1, Human Resources Management: Science versus Practice in Selection, on page 35.

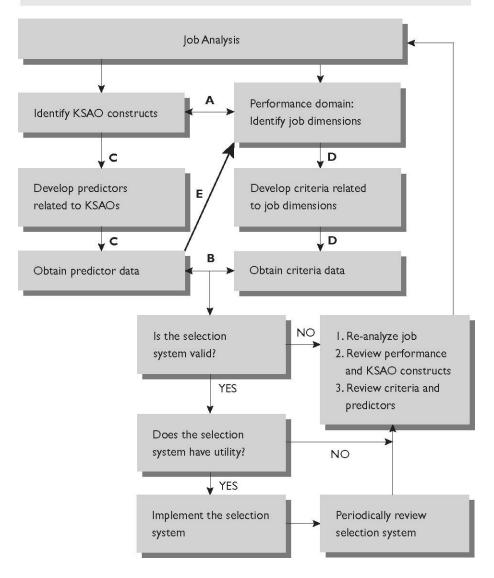
PTS: 1

REF: 30, 35

OBJ: 1

Figure 2.1

Job Analysis, Selection, and Criterion Measurements of Performance: A Systems Approach



2. Describe the process and components of selection model Figure 2.1.

#### ANS:

The job analysis information is used to identify the performance domain and also the knowledge, skills, abilities, and other attributes linked to job performance. Line A represents the relationship between the performance domain and the knowledge, skills, abilities, and other attributes that contribute to the performance of job tasks and behaviours. Line D represents the process of defining the performance domain and developing related criterion measurements. Line C represents the process of translating the knowledge, skills, abilities, and other attributes' constructs into valid, measurable predictors. Line E represents predicting which applicants will be successful in their position. The final step in the selection process is to demonstrate that hiring decisions are based on the selection system's utility.

PTS: 1 REF: 30 OBJ: 1

3. Scribe Engineering, a medium-sized information technology company, is having difficulties recruiting and retaining several of its administrative assistant positions. Traditionally, Scribe has used a practice-based selection process. As the new HRM, what would you suggest to the CEO?

#### ANS:

Scribe Engineering should undertake a job analysis of an administrative assistant to determine the essential components of office administration work and the level of performance required for success (performance domain and knowledge, skills, abilities, and other attributes) and then create a series of tests to measure those components among administrative assistants.

Refer to Figure 2.1, Job Analysis, Selection, and Criterion Measurements of Performance: A Systems Approach, on page 30; Table 2.1, Human Resources Management: Science versus Practice in Selection, on page 35; and Figure 2.4, Validation Strategies, on page 46, which emphasizes the importance of job analysis, selection, and criterion measurements of performance, systems approach, and science-based selection.

PTS: 1 REF: 30, 35, 46 OBJ: 1–4

4. Choose a specific job you are familiar with and choose one characteristic that you think is critical to successfully performing that job. If you were the HRM hiring for this position, what would you consider in measuring the characteristic and job performance to ensure reliability and validity?

#### ANS:

Refer to the short answer question and answer (above) on science-based selection, reliability, and validity. Figure 2.1, Job Analysis, Selection, and Criterion Measurements of Performance: A Systems Approach, on page 30; Table 2.1, Human Resources Management: Science versus Practice in Selection, on page 35; and Recruitment and Selection Notebook 2.2, Validity, which emphasizes the importance of job analysis, selection, and criterion measurements of performance, systems approach, and science-based selection. Refer to the example of the Toronto Police Service, on page 33.

PTS: 1 REF: 30, 32, 33, 35, 44, 50 OBJ: 1–4

5. Since TS Inc. is a small, growing aviation company, the CEO makes the hiring decisions based on his years of experience as well as his gut feeling. He started the business 10 years ago with 10 employees and the company has grown to over 30 employees. The CEO has asked you, the HRM, to explain some of the differences between the use of his practice-based selection approach and an empirical-based process. Also explain what challenges you anticipate he would face in using validation techniques.

#### ANS:

Validation studies require relatively large number of hires. The challenge for TS Inc. is that it does not hire many people.

Refer to Table 2.1, Human Resources Management: Science versus Practice in Selection, on page 35, and Recruitment and Selection Notebook 2.2, Validity, on page 50).

PTS: 1 REF: 35, 50 OBJ: 1

6. What is reliability? Identify three factors affecting reliability.

#### ANS:

Reliability is an indication of the stability or dependability of a set of measurement errors. Reliability is an indication of the stability or dependability of a set of measurements over repeated applications of the measurement procedure. Reliability refers to the consistency of a set of measurements when a testing procedure is repeated on a population of individuals or groups. In terms of testing, it is expected that a test will provide approximately the same information each time it is given to that person.

## Factors Affecting Reliability

- Temporary individual characteristics: if a job candidate is quite ill or anxious, the know-how score may be affected and have a greater error component.
- Lack of standardization: changing the conditions under which measurements are made introduces error in the measurement process. For example, reliability is decreased if different candidates are asked different questions during interviews. If the environment varies in which candidates for the same job are interviewed, it will affect reliability.
- Chance: factors unique to a specific procedure introduce error into the set of measurements. If an employer has interviewed someone previously, that applicant will have a better chance of performing well in an interview with that employer again.

PTS: 1 REF: 37–44 OBJ: 3

7. What is validity in selection? Describe four validation strategies.

#### ANS:

*Validity* is the degree to which accumulated evidence and theory support specific interpretations of test scores in the context of the test's proposed use.

- Evidence based on test content: this type of validity evidence comes from analyzing the relationship between a test's content and the construct the test is intended to measure. Evidence of validity based on test content can consist of either empirical or logical analyses of how well the contents of the test, and interpretation of the test scores, represent the construct.
- Evidence based on relations to other variables: this type of evidence is based on an analysis of the relationship between test scores and other variables that are external to the test.
- Predictive evidence for test-criterion relationships: *predictive* evidence is obtained through research designs that establish the correlation between predictor scores (know-how scores) obtained before an applicant is hired and criteria (performance scores) obtained at a later time, usually after an applicant is employed.
- Concurrent evidence for test-criterion relationships: *concurrent* evidence is obtained through research designs that establish a correlation between predictor and criteria scores from information that is collected at approximately the same time from a specific group of workers.

PTS: 1 REF: 45–52 OBJ: 4

8. What is bias in selection?

#### ANS:

*Bias* refers to systematic errors in measurement, or inferences made from those measurements, that are related to different identifiable group membership characteristics such as age, sex, or race.

PTS: 1 REF: 55, 56 OBJ: 5

9. What is fairness? Why is it an important concept in selection?

### ANS:

Fairness in measurement refers to the value judgments people make about the decisions or outcomes that are based on those measurements. Fairness is the principle that every test taker should be assessed in an equitable manner. Issues of fairness cannot be determined statistically or empirically. Fairness involves perceptions. It is important from a business, ethical, and legal standpoints to have tests that are scientifically sound; it is also important to have procedures that are perceived as fair. From a business perspective, the adverse reactions to selection tests and procedures may impair the ability of the organization to recruit and hire the best applicants.

PTS: 1 REF: 56, 58 OBJ: 5