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

MULTIPLE CHOICE

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- a. reviewing the candidate pool for the job position
- b. identifying knowledge, skills, abilities, and other attributes constructs for the job position
- c. acquiring job analysis information for the job position
- d. developing performance indicators and job dimension for the job position

ANS: C PTS: 1 REF: 34 OBJ: 1

BLM: Remember

2. What did the Supreme Court of Canada decision in the *Meiorin* case illustrate?

- a. Employment testing can be inaccurate and unfair.
- b. A completed job analysis will ensure that legal standards are met.
- c. Selection procedures have been checked for validity.
- d. There are physical differences between men and women.

ANS: C PTS: 1 REF: 32-33 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: 34 OBJ: 1

BLM: Higher Order

4. From the *Meiorin* case, what new selection issue was identified for human resources managers?

- a. the need to understand test validity
- b. the need to understand test measurement
- c. the need to understand test reliability
- d. the need to understand test coefficients

ANS: A PTS: 1 REF: 34 OBJ: 3

BLM: Higher Order

5. The *Meiorin* case became a precedent setting case in British Columbia in the 1990s. What was the main thesis of the case?

- a. Male and female firefighters run at different speeds.
- b. Bona fide occupational requirements are discriminatory.
- c. Women should not be hired as firefighters if they cannot pass the fitness tests.
- d. The maximal oxygen uptake can be expanded with increased fitness.

ANS: B PTS: 1 REF: 32-33 OBJ: 5

BLM: Higher Order

6.	The Winnipeg Police Department uses a written exam based on grade 12 knowledge, language, mathematics, and comprehension as part of its hiring process. What would the exam be classified as a. a selection criterion b. a screening method c. a performance dimension d. a minimum qualification	?
	ANS: B PTS: 1 REF: 35 37 OBJ: 5 BLM: Higher Order	
7.	 Which of the following is NOT a selection criterion for the Winnipeg Police Department? a. The applicant must meet the vision standard for the Winnipeg Police Service. b. The applicant must successfully pass the physical abilities test within 10 minutes. c. The applicant must be a Canadian citizen or landed immigrant. d. The applicant must not have a criminal record for which a pardon has not been granted. 	
	ANS: B PTS: 1 REF: 37 OBJ: 5 BLM: Higher Order	
8.	Which of the following is NOT a reason to use practice-based selection approaches? a. fits organizational culture b. comfort with the process c. consistent process d. flexibility and speed	
	ANS: C PTS: 1 REF: 38 OBJ: 4 BLM: Remember	
9.	What is a potential outcome of a science-based selection process? a. a significant number of qualified applicants b. a defensible system with effective employees c. a flexible, quick process that fits the organization's culture d. a process that is comfortable and flexible for all employees	
	ANS: B PTS: 1 REF: 38 OBJ: 4 BLM: Remember	
10.	What is a potential outcome of a practice-based selection process? a. the effective use of structured and consistent procedures b. a defensible system with effective employees c. increased productivity and competitiveness d. human rights litigation and marginal employees	
	ANS: D PTS: 1 REF: 38 OBJ: 4 BLM: Remember	
11.	What is a defining characteristic of a practice-based selection process? a. It is defensible. b. It is intuitive. c. It is system-wide. d. It is structured.	
	ANS: B PTS: 1 REF: 38 OBJ: 4 BLM: Remember	

ANS: C PTS: 1 REF: 38 OBJ: 4 BLM: Remember 13. What is the concept that is defined as "systematic errors in measurement, or inferences made from those measurements, that are related to different identifiable group membership characteristics is age, sex, or race?" a. discrimination b. unfairness c. bias d. validity ANS: C PTS: 1 REF: 54 OBJ: 5 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 are reliable ANS: C PTS: 1 REF: 40 OBJ: 4 BLM: Remember 15. What is the term that explains relationships between observations? a. a variance b. a construct c. a concept d. a validation ANS: B PTS: 1 REF: 39 OBJ: 1 BLM: Remember 16. Which of the following is NOT a statement about reliability? a. Reliability is an indication of the stability of measurements. b. 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 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: 40-41 OBJ: 2	12.	What is a defining cha.a. It is flexible.b. It is intuitive.c. It is rational.d. It is subjective.	naracteri	istic of a scienc	ce-based	d selection proc	cess?	
those measurements, that are related to different identifiable group membership characteristics s age, sex, or race?" a. discrimination b. unfairness c. bias d. validity ANS: C PTS: 1 REF: 54 OBJ: 5 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 are reliable ANS: C PTS: 1 REF: 40 OBJ: 4 BLM: Remember 15. What is the term that explains relationships between observations? a. a variance b. a construct c. a concept d. a validation ANS: B PTS: 1 REF: 39 OBJ: 1 BLM: Remember 16. Which of the following is NOT a statement about reliability? a. Reliability is an indication of the stability of measurements. b. 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: 40-41 OBJ: 2			PTS:	1	REF:	38	OBJ:	4
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 are reliable ANS: C PTS: 1 REF: 40 OBJ: 4 BLM: Remember 15. What is the term that explains relationships between observations? a. a variance b. a construct c. a concept d. a validation ANS: B PTS: 1 REF: 39 OBJ: 1 BLM: Remember 16. Which of the following is NOT a statement about reliability? a. Reliability is an indication of the stability of measurements. b. 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: 40-41 OBJ: 2	13.	those measurements, age, sex, or race?" a. discrimination b. unfairness c. bias						
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 a. a variance b. a construct c. a concept d. a validation ANS: B PTS: 1 REF: 39 OBJ: 1 BLM: Remember 16. Which of the following is NOT a statement about reliability? a. Reliability is an indication of the stability of measurements. b. 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: 40-41 OBJ: 2 			PTS:	1	REF:	40	OBJ:	4
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	16.	a. Reliability is anb. Reliability is thec. Reliability is the	indication degree amount	on of the stabili that observed s t of systemic er	ity of m cores a rors rel	neasurements. re free from rar ative to their tr	ue score	
			PTS:	1	REF:	40-41	OBJ:	2

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

errors?
a. validity

	b. fairnessc. error scored. reliability						
	ANS: D BLM: Remember	PTS: 1	REF:	40	OBJ:	2	
18.	What is the concept any particular measurement endough a. measurement endough b. standard deviation c. lack of standard d. test and retest	rement and the ror on				ndividual's o	observed score or
	ANS: A BLM: Remember	PTS: 1	REF:	42	OBJ:	3	
19.	 What do you get what the proportion of measured characteristic the proportion of characteristic the proportion of the measured the proportion of measured characteristic 	f consistency in eteristic f error in the er f measurement characteristic f variance in the	on the true scores ror scores attrib error in the obs	s attribute outed to t served sc	ed to true differue difference ores attributed	s on the mea	asured
	ANS: D BLM: Remember	PTS: 1	REF:	42	OBJ:	3	
20.	An HRM used the ic group of people on ca. test and retest b. alternate forms c. internal consiste d. inter-rater reliab	lifferent occasion	_				
	ANS: A BLM: Higher Order	PTS: 1	REF:	44	OBJ:	2	
21.	According to the An fairness that is typica. The applicant cab.	ally applied to a in expect a lack in expect every in expect an equ	the selection properties of bias. test to be assessal opportunity	ocess? sed in an to learn.	equitable ma	nner.	of the concept of
	ANS: B BLM: Remember	PTS: 1	REF:	56-57	OBJ:	5	

22.	 In order 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? a. A scoring scheme is developed for the selection assessments. b. Tasks of the target position are identified by job experts. c. Job experts independently rate the reliability of each task. d. Job experts evaluate the relationship between performance and job success. 					
	ANS: C BLM: Higher Order	PTS: 1	REF: 52	OBJ: 4		
23.		t a validity coefficie		rs Schmidt and Hunter use to ontext in which it was measured?		
	ANS: B BLM: Higher Order	PTS: 1	REF: 52	OBJ: 3		
24.	What is the concept the with measurement error a. sampling error b. regression c. attenuation d. differential predictions.	or of the predictor, t	_	of the validity coefficient associated		
	ANS: C BLM: Remember	PTS: 1	REF: 54	OBJ: 4		
25.	What concept uses diffa. subgroup differents. subgroup bias c. subgroup norming d. subgroup fairness	tial	s for different identifial	ble subgroups?		
	ANS: C BLM: Remember	PTS: 1	REF: 55	OBJ: 5		
26.		cal Comprehension t anel test Service physical abil		rd males?		
	ANS: A BLM: higher Order	PTS: 1	REF: 56	OBJ: 5		

27.	which of the following is Na. lack of standardizationb. temporary individual chc. seasonalityd. chance		egory of	factors affecti	ng relia	ability?
	ANS: C PTS: BLM: Remember	1	REF:	42-43	OBJ:	3
28.	In order to estimate reliability measures. Which of the followa. internal consistency b. test and retest c. intra-rater agreement d. alternate forms	•			o devel	op approximations of parallel
	ANS: C PTS: BLM: Remember	1	REF:	44-45	OBJ:	3
29.	What does a regression line a. The predictable variable b. The predictable variable c. The dependent variable d. The dependent variable	X predicts the Y predicts the X correlates to	depend the pred	ent variable X. lictable variabl		
	ANS: A PTS: BLM: Higher Order	1	REF:	55	OBJ:	4
30.	What is the concept that is da. subgroup prediction b. differential prediction c. systematic prediction d. performance prediction	efined as the pr	redicted	average perfor	rmance	score of a subgroup?
	ANS: B PTS: BLM: Remember	1	REF:	55	OBJ:	5
31.	Which of the following is N a. standardized test admini b. test reliability c. validity evidence d. careful test development	stration	quality	of a testing pro	ocedure	?
	ANS: C PTS: BLM: Remember	1	REF:	58	OBJ:	3

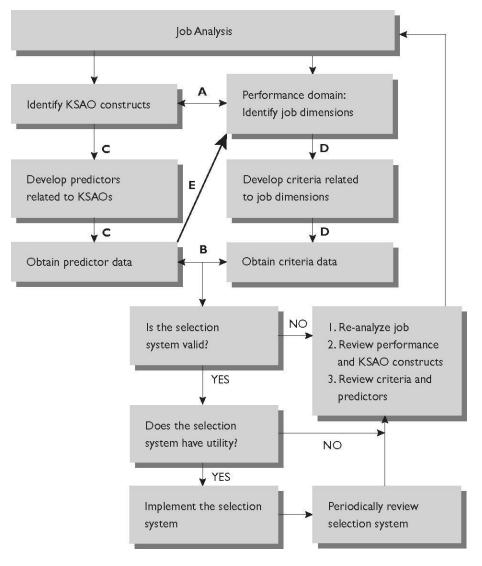
Chapter 2 Foundations of Recruitment and Selection I

32. What two strategies are typical methods used given that the researcher requires evidence for test-criterion relationships?

	a. criterion-relatedb. inference and inc. differential and sd. predictive and co	tuition selective			
	ANS: D BLM: Remember	PTS: 1	REF: 50	OBJ: 4	
33.	How many attempts British Columbia Ma. a. one b. two c. three d. four		ke to reach the aerob	pic standard before she was	fired from the
	ANS: D BLM: Remember	PTS: 1	REF: 33	OBJ: 5	
34.	In the selection proc adopted by the City a. loyalty and comb. respecting divers c. ethics and value d. integrity and true	of Winnipeg? mitment sity s	g Police Service, whi	ch of the following is NOT	a competency
	ANS: A BLM: Remember	PTS: 1	REF: 37	OBJ: 5	

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: 34 OBJ: 1

BLM: Higher Order

- 36. Refer to Figure 2.1. What relationship does Line A represent?
 - a. the relationship among job analysis, knowledge, skills, abilities, and other attributes and performance management
 - b. the relationship between the performance domain and the knowledge, skills, abilities, and other attributes that contribute to the performance of job tasks and behaviours
 - c. the relationship between the knowledge, skills, abilities, and other attributes constructs and performance competencies
 - d. the relationship among job analysis, knowledge, skills, abilities, and other attributes, and performance criteria and dimensions

ANS: B PTS: 1 REF: 34 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: 34 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: 34 OBJ: 1

BLM: Higher Order

- 39. Refer to Figure 2.1. 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: 34 OBJ: 1

BLM: Higher Order

TRUE/FALSE

1.	abilities, and other attributes to perform the job being filled.						
	ANS: T	PTS:	1	REF:	35	OBJ:	1
2.	The goal of selection job.	n is to ide	entify job cand	idates v	who have those	attribu	tes required for success on the
	ANS: T	PTS:	1	REF:	35	OBJ:	1
3.	Employers must kno are compliant.	w the leg	gal and profess	ional st	andards in orde	er to en	sure their selection processes
	ANS: T	PTS:	1	REF:	36	OBJ:	1
4.	If an employer does about an applicant th						still make a correct guess
	ANS: T	PTS:	1	REF:	35	OBJ:	4
5.	An employer's empl	oyment c	decisions must	be ratio	onal and intuiti	ve.	
	ANS: F	PTS:	1	REF:	38	OBJ:	1
6.	An employer's recru the knowledge, skill						re an applicant who possesses rm the job.
	ANS: T	PTS:	1	REF:	39	OBJ:	1
7.	Hiring decisions mu reliability and validi		ensible; they m	iust me	et legal require	ments a	and professional standards of
	ANS: T	PTS:	1	REF:	40	OBJ:	3
8.	The HR manager foo	cuses on o	one variable, u	sually j	job performanc	e, in th	e selection process.
	ANS: F	PTS:	1	REF:	40	OBJ:	4
9.	The reliability coefficient	cient is the	he degree that	true sco	ores correlate w	vith one	another.
	ANS: F	PTS:	1	REF:	42	OBJ:	2
10.	Measurement error of score on any particular						een an individual's observed
	ANS: T	PTS:	1	REF:	42	OBJ:	3
11.	When candidates are	asked di	ifferent question	ons fron	n one interview	to the	other, validity is reduced.
	ANS: F	PTS:	1	REF:	45-46	OBJ:	4

2-10

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Chapter 2 Foundations of Recruitment and Selection I

12.	Validity is the degree	e to which observed sc	ores are free from rand	dom measurement errors.
	ANS: F	PTS: 1	REF: 45	OBJ: 3
13.	The principle that eve	ery test taker should be	e assessed in an equita	ble manner is known as equity.
	ANS: F	PTS: 1	REF: 56	OBJ: 6
14.	Issues of fairness nee	ed to be determined sta	tistically.	
	ANS: F	PTS: 1	REF: 56	OBJ: 6
15.	Achieving fairness of	ften requires comprom	ise between conflictin	g interests.
	ANS: T	PTS: 1	REF: 56	OBJ: 6

SHORT ANSWER

1. How does science affect the selection process?

ANS:

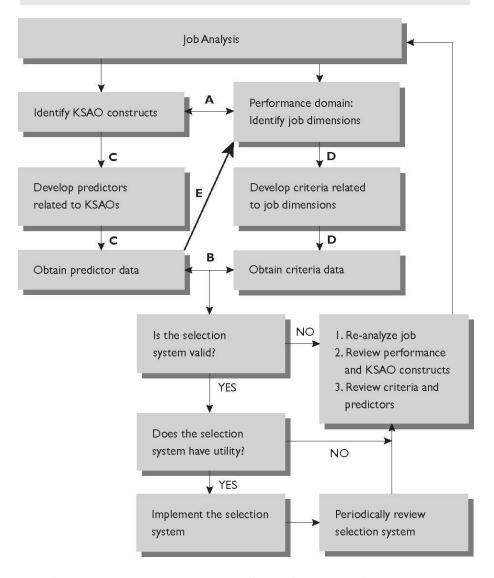
To remove the guessing in selection, a selection system must be built on sound empirical support, be reliable and valid, and operate within a legal context.

- 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 and Table 2.1—Human Resources Management: Science versus Practice in Selection.

PTS: 1 REF: 34 | 38 OBJ: 3

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 both the performance domain and 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: 34 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 (p. 34), Table 2.1, Human Resources Management: Science versus Practice in Selection (p. 38), and Figure 2.2, Validation Strategies (p. 47) emphasize the importance of job analysis, selection, and criterion measurements of performance, systems approach, and science-based selection.

PTS: 1 REF: 34 | 38 | 47 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 (p. 34), Table 2.1, Human Resources Management: Science versus Practice in Selection (p. 38), and Recruitment and Selection Notebook 2.1 Validity (p. 52) emphasize the importance of job analysis, selection, and criterion measurements of performance, systems approach, and science-based selection. Refer to the example of the Winnipeg Police Service (p. 37).

PTS: 1 REF: 34 | 37 | 38 | 52 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 has grown to over 30 employees. The CEO has asked you, the HRM, to explain some of the differences between using his practice-based selection approach and an empirical-based process. Also explain what challenges you anticipate 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 38, and Recruitment and Selection Notebook 2.1—Validity on page 52.

PTS: 1 REF: 34 | 52 OBJ: 1

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

ANS:

Reliability is the degree to which observed scores are free from random 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, he will have a better chance of performing well in an interview with that employer again.

PTS: 1 REF: 42-43 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: 45-53 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: 54-56 OBJ: 5

Chapter 2 Foundations of Recruitment and Selection I

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