Definitions: Topic 1: The Scientific Method

Unit 2: Research Methods

MULTIPLE CHOICE

1.	What approach attempts to gather information and to answer questions in such a way that errors and bias are minimized?				
		tific method			
	b. random selection d. varia	ble manipulation			
	ANS: C PTS: 1 DIF: Reme	ember			
	OBJ: LO1: Outline the steps in the scientific method an				
	respect to psychological research. TOP: Meth	ods for All Sciences			
2.	2. The "scientific" part of psychology refers to its use of				
	a. the scientific method c. theor				
	b. introspection d. statis	tics			
	ANS: A PTS: 1 DIF: Unde	rstand			
	OBJ: LO1: Outline the steps in the scientific method an				
	respect to psychological research. TOP: Meth	ods for All Sciences			
3.	3. The scientific method attempts to				
	a. propose theoretical ideas to answer questions				
	b. minimize errors and bias in gathering information an	d answering questions			
	c. promote common sense understanding	anima anto			
	d. dispute common sense by forcing scientists to do exp				
	ANS: B PTS: 1 DIF: Unde				
	OBJ: LO1: Outline the steps in the scientific method an respect to psychological research. TOP: Meth	ods for All Sciences			
	respect to psychological research.	ous for All Sciences			
4.					
	b. a faith that precise equipment will produce accurate ic. all of the findings of science in the modern era	nformation			
	c. all of the findings of science in the modern erad. a set of guidelines published by the American Acade	my of Science			
	ANS: A PTS: 1 DIF: Reme	•			
	OBJ: LO1: Outline the steps in the scientific method an				
		ods for All Sciences			
5.		•			
	a. hypothesisb. proposalc. variad. rando	onization			
	1 1				
	ANS: A PTS: 1 DIF: Reme				
	OBJ: LO1: Outline the steps in the scientific method an respect to psychological research. TOP: Meth	ods for All Sciences			
	respect to psychological research.	ous for All Belefices			
6.	1 6	ne evaluation of evidence from experiments			
	and careful observation?	wicel ammuseah			
		rical approach etical approach			
	o. Statistical approach d. theol	THE SPECIAL SP			

	ANS: C PTS: 1 DIF: Remember OBJ: LO1: Outline the steps in the scientific method and articulate the importance of each with respect to psychological research. TOP: Methods for All Sciences		
7.	The goals of psychology are to describe, predict, explain, and a. replicate studies		
	ANS: B PTS: 1 DIF: Understand OBJ: LO1: Outline the steps in the scientific method and articulate the importance of each with respect to psychological research. TOP: Methods for All Sciences		
8.	Hypotheses are a. conclusions drawn from observations b. precise predictions that can be tested through research c. useful only if they prove to be correct d. explanations that organize observations and account for the relationships among them		
	ANS: B PTS: 1 DIF: Remember OBJ: LO1: Outline the steps in the scientific method and articulate the importance of each with respect to psychological research. TOP: Methods for All Sciences		
9.	Which of the following is a step in the scientific method? a. Developing a theory c. Consulting the literature b. Selecting a research method d. Forming a hypothesis		
	ANS: D PTS: 1 DIF: Remember OBJ: LO1: Outline the steps in the scientific method and articulate the importance of each with respect to psychological research. TOP: Methods for All Sciences		
10.	 Which of the following is the correct order of steps in the scientific method? a. Forming a hypothesis, developing a research question, gathering evidence, drawing conclusions b. Gathering evidence, developing a research question, forming a hypothesis, drawing conclusions c. Developing a research question, forming a hypothesis, gathering evidence, drawing conclusions d. Formulating a theory, developing a research question, gathering evidence, drawing conclusions 		
	ANS: C PTS: 1 DIF: Understand OBJ: LO1: Outline the steps in the scientific method and articulate the importance of each with respect to psychological research. TOP: Methods for All Sciences		
11.	One important difference between science and everyday observations is that science relies on a. objectivity c. perspective b. introspection d. subjectivity		
	ANS: A PTS: 1 DIF: Remember OBJ: LO1: Outline the steps in the scientific method and articulate the importance of each with respect to psychological research. TOP: Methods for All Sciences		
12.	Any observation by a human being is, by definition, a. objective c. inferential b. falsifiable d. subjective		

	ANS: D PTS: 1 DIF: F OBJ: LO1: Outline the steps in the scientific metho respect to psychological research. TOP: M	
13.		wledge? qualitative and definitive quantitative and procedural
	OBJ: LO1: Outline the steps in the scientific metho	Understand od and articulate the importance of each with Methods for All Sciences
14.		ently is called free thinking critical thinking
	OBJ: LO1: Outline the steps in the scientific metho	Remember of and articulate the importance of each with Methods for All Sciences
15.		genetically determined based on cultural norms
	OBJ: LO1: Outline the steps in the scientific metho	Understand and articulate the importance of each with Methods for All Sciences
16.	A set of facts and relationships between facts that car a(n)	n explain and predict related phenomena is called
	a. theory c. c	descriptive method experiment
	OBJ: LO1: Outline the steps in the scientific metho	Remember of and articulate the importance of each with Methods for All Sciences
17.	The best scientific theories not only explain and orga	anize known facts, but they also generate new
		conclusions behaviors
	OBJ: LO1: Outline the steps in the scientific metho	Remember of and articulate the importance of each with Methods for All Sciences
18.	 As Sir Isaac Newton noted, scholars stand a. on shifting sands b. beneath the tree of knowledge c. on the shoulders of giants d. at the intersection of history and knowledge 	
	OBJ: LO1: Outline the steps in the scientific metho	Remember od and articulate the importance of each with Methods for All Sciences

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19.	the result"? a. theory	c.	ally taking the form "if A happens, then B will be experiment
	b. research proposal	d.	hypothesis
	ANS: D PTS: 1 OBJ: LO1: Outline the steps in the scientific respect to psychological research.	fic metl	Understand hod and articulate the importance of each with Methods for All Sciences
20.	Scientific hypotheses must be both a. falsifiable and testable b. valid and replicable	c. d.	falsifiable and reliable valid and testable
		fic metl	Understand hod and articulate the importance of each with Methods for All Sciences
21.	21. What feature of a hypothesis means that it can be evaluated using known scientific methoda. replicable c. reliable b. testable d. valid		reliable
	ANS: B PTS: 1 OBJ: LO1: Outline the steps in the scientific respect to psychological research.	fic metl	Understand hod and articulate the importance of each with Methods for All Sciences