Health Psychology An Introduction to Behavior and Health 9th Edition Brannon Test Bank

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Chapter 02: Conducting Health Research

- 1. An inactive substance or condition that has the appearance of the independent variable and that may cause participants in an experiment to improve or change behavior due to their belief is called
 - a. a nocebo.
 - b. a placebo.
 - c. a dependent variable.
 - d. an experimental design.

ANSWER: b

- 2. Two research teams are both experimenting with new treatments for a medical condition. In one study, the condition involved currently has no treatment; in the other, there is an accepted treatment, to which the researchers seek alternative and/or improved options. Both studies are comparing an experimental treatment to a placebo. Ethically, what is the most likely opinion?
 - a. Both studies are unethical because patient welfare is not the first priority.
 - b. The study wherein an accepted standard of care exists may be unethical.
 - c. The study wherein no treatment exists for the condition is less ethical.
 - d. Both studies are ethical because testing new treatments is necessary.

ANSWER: b

- 3. Which of these conditions is likely to produce the highest positive placebo effect?
 - a. A physician dressed casually in blue jeans and sneakers
 - b. A physician who is enthusiastic in describing the treatment
 - c. A physician with a reputation for medical errors
 - d. A physician who, when prescribing medication, says, "This may not help, but it won't hurt."

ANSWER: b

- 4. The placebo effect is
 - a. most prominently observed in well-designed experiments.
 - b. an imaginary effect which can be applicable to everybody.
 - c. an imaginary effect occurring almost exclusively in hypochondriacs.
 - d. physiologically real and can improve organic or psychological symptoms.

ANSWER: d

- 5. When a placebo effect is observed in a treatment, what does this most demonstrate?
 - a. Objective measures supersede subjective perceptions.
 - b. Subjective perceptions supersede objective measures.
 - c. Objective and subjective findings can be equally valid.
 - d. Subjective perceptions prove treatment effects equally.

ANSWER: c

- 6. For which of the following symptoms would you expect a placebo to be most ineffective?
 - a. Pain
 - b. Nausea

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c. Fracture		

d. Depression

ANSWER: c

- 7. Which of these "sugar pills" is likely to have the greatest positive effect?
 - a. White pills rather than colored pills
 - b. Very small pills rather than medium-size pills
 - c. Capsules rather than tablets
 - d. Generic pills rather than brand-name drugs

ANSWER: c

- 8. What does research find about the relative effectiveness of placebos?
 - a. Surgery has more placebo effect than injections.
 - b. Pills have more powerful effects than injections.
 - c. Treatments that cost less produce greater effects.
 - d. Taking more or fewer doses makes no difference.

ANSWER: a

- 9. Placebos have been known to help
 - a. reduce insomnia.
 - b. decrease low back pain.
 - c. lower high blood pressure.
 - d. bowel movements.

ANSWER: d

- 10. To determine whether Drug Z lowers blood pressure, it is necessary to demonstrate that an experimental group, which has been given Drug Z, will have lower blood pressure than a comparison group, which has been given
 - a. a higher dose of Drug Z.
 - b. a lower dose of Drug Z.
 - c. a placebo treatment.
 - d. no treatment at all.

ANSWER: c

- 11. Which of these statements is true?
 - a. Placebo effects can influence both psychological and physical disorders.
 - b. Valuable research is done by people outside the scientific community, but scientists try to discount the importance of this research.
 - c. Scientific breakthroughs happen every day.
 - d. Experimental rather than observational research is required to learn about patterns of disease.

ANSWER: a

12. Using placebos

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- a. makes it easier to determine the effectiveness of a therapeutic intervention.
- b. does not produce any type of unfavorable effect.
- c. is easy to control in psychotherapeutic treatment.
- d. hampers the evaluation of the effectiveness of treatment programs.

ANSWER: d

- 13. Research with placebos and nocebos finds that actual physiological changes
 - a. are unnecessary, as long as the patients feel better.
 - b. are observed from placebos, but not from nocebos.
 - c. are present from taking both placebos and nocebos.
 - d. are observed from nocebos, but not from placebos.

ANSWER: c

- 14. When neither the participants nor the experimenters know which group has received the treatment and which has received a placebo, the design is called
 - a. confounding.
 - b. double-blind.
 - c. correlational.
 - d. naturalistic.

ANSWER: b

- 15. The nocebo effect occurs when
 - a. participants in a placebo study experience a negative effect.
 - b. participants in a placebo study experience a positive effect.
 - c. experimenters use a double-blind study.
 - d. experimenters use the case-control method.

ANSWER: a

- 16. Placebos can be beneficial in treating many conditions EXCEPT:
 - a. depression.
 - b. hypertension.
 - c. insomnia.
 - d. broken bones.

ANSWER: d

- 17. Patient A was raised to view medical treatments as most effective; Patient B was raised to believe in faith healing and avoid medical treatments. If both patients are given a placebo, what is most likely?
 - a. The strength of their respective placebo responses should not be affected by the differences in what they believe.
 - b. Each will have a stronger response to a placebo that seems most similar to their respective preferred treatments.
 - c. Each will have a stronger response to a placebo that seems most different from the treatments that

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each one prefers.		
d. Each will have a stronger responsable each one prefers.	nse to a placebo that seems most diff	erent from the treatments that
ANSWER: b		
18. A doctor diagnoses Javier with an inferplacebo response, which of the following a. Javier has read that this medicate		f conditioning?
b. Javier has had same medication	before and recovered from a similar	infection.
c. Javier has had good medical exp	periences and associates treatment wi	ith success.
d. Javier has learned that taking pr	rescribed medication is better than no	ot taking it.
ANSWER: a		
19. Cynthia has contracted a rare virus wh unproven as yet, but seems quite promisir this case?		•
a. Cynthia's response is more like	ly due to the placebo effect than the t	reatment.
b. Cynthia's response is more like	ly due to the treatment than the place	bo effect.
c. Cynthia's response is most likel	y due to the treatment plus the placel	bo effect.
d. Cynthia's response is most likel	y due to neither treatment nor placeb	oo effect.
ANSWER: c		
20. The a placebo resembles an	effective treatment, the the places	oo effect.
a. more; stronger		
b. more; weaker		
c. less; stronger		
d. none of these ANSWER: a		
ANGWEN. a		
21. Dr. Smith, a clinical health psycholog improves swimmers' race times. It is mos a. correlational		
b. single-blind		
c. double-blind		
d. retrospective		
ANSWER: b		
22. Dr. Jonas is conducting a single-blind procedure's effectiveness. What is true ab	out this research?	·
a. Dr. Jonas can control for partici	pant expectancy more than in a doub	ne-onna aesign.

b. Dr. Jonas cannot control for participant expectancy as well as in double-blind designs.c. Dr. Jonas will need to establish the same expectancies for all the participants for control.d. Dr. Jonas is using a research design that informs participants which treatment they receive.

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ANSWER: c		
	•	•
c. Whether the placebo works b	better than the drug	
d. Whether the drug and placeb ANSWER: a	oo work equally well	
treatment to a placebo. Ethical codes r	riends have all decided to volunteer for a recequire that they all sign their informed constrmed whether they will get the treatment	sent to participate. What does this mean?
b. The students have been infor	rmed and allowed to choose the treatmen	nt or placebo.
c. The students have been infor	rmed they will receive something, but no	ot which it is.
d. The students have been infor	rmed they will get a placebo and agree to	o participate.
ANSWER: c		
25. Most health-related evidencea. is the result of a variety of reb. has been discovered acciden		
	public to avoid widespread panic.	
d. comes from the results of ex	1 1	
ANSWER: a	permitting designs.	
research is using a	at examines whether 20-year olds eat more a design.	low-fat foods than 70-year olds. This
a. cross-sectional		
b. experimental		
c. ex post facto		
d. retrospective		
ANSWER: a		
27. A researcher discovers a high posi a. One variable is the cause; the	tive correlation between intelligence and go e other variable is the effect.	ood health. What does this mean?
b. Both of these variables recip	rocally influence each other.	
c. Both of these variables occu	r together and at similar rates.	
d. One variable will increase as	s the other variable decreases.	

28. A research team conducts a study, and their statistical analysis yields a correlation coefficient of 0.07 between two

a. This number is so small that it is not statistically significant.

variables. What is true about this?

ANSWER: c

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b. This number is so small th	nat the correlation must be random.	
c. This number can predict o	one variable's score from the other's.	
d. This number can be statist	tically significant in large populations.	
ANSWER: d	7 0 0 1 1	
	arch that examines 5 year olds and their aggreer to measure their reactivity to stress. She is	
b. experimental		
c. longitudinal		
d. ex post facto		
ANSWER: c		
nealth decreases.	lation between physical age and physical healt	th, such that as age increases, physical
a. positive		
b. negative		
c. weak		
d. nonexistent ANSWER: b		
ANSWER. D		
31. A correlation of .80 would indic	cate a and relationship t	petween two variables.
a. strong; positive		
b. strong; negative		
c. weak; positive		
d. weak; negative		
ANSWER: a		
32. A positive correlation between plealth	physical health and education would indicate	that as education, physical
a. decreases, decreases		
b. decreases, increases		
c. increases, decreases		
d. increases, increases		
ANSWER: d		
	ongitudinal studies and cross-sectional studies studies occur	s is that cross-sectional studies occur
a. once; over time		
b. over time; once		
c. with the same participants	; with different participants	
d. with the same participants	e; over time	

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ANSWER: a		
34. One of the advantages of conducting a least state of the advantages of the advantage	ongitudinal study is that longitudinal st	tudies can
a. be completed quickly.	•	
b. help identify developmental trend	s and patterns.	
c. determine causality.		
d. be completed with relatively few	researchers.	
ANSWER: b		
35. A recent research study examined wheth maintain a weight-loss program. In this experther children were assigned to the control this experiment was	eriment, some children were randomly l condition and did not receive text	assigned to receive text messages and
a. continued enrollment in a weight-	loss program.	
b. text messages.		
c. weight loss.		
d. not receiving text messages.		
ANSWER: a		
36. Researchers want to examine whether woptimism. Breast-cancer patients were randor writing about		
a. hope and optimism.		
b. breast cancer diagnosis.		
c. writing about everyday tasks.		
d. the essay conditions.		
ANSWER: d		
37. One of the challenges of conducting heavariables, such as sexual behaviors or smok manipulating these groups is a. experimental		•
b. ex post facto		
c. random assignment		
d. longitudinal		
ANSWER: b		
20 If tone namiable in the second	ath an thou one	
 If two variables increase or decrease tog a. positively correlated. 	emer, mey are	
b. negatively correlated.		
or mogum vory combination.		

c. positively skewed.d. negatively skewed.

ANSWER: a

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 39. Correlational studies a. cannot indicate cause and effect. b. are a type of experimental design. c. cannot be used in psychological researd. cannot be used in epidemiological researd. 		
ANSWER: a		
40. Correlational studies are a type of a. experimental study. b. double-blind study. c. ex post facto design. d. descriptive research.		
ANSWER: d		
41. Small correlations, for example 0.08 or 0.10,a. may be statistically significant.b. cannot be statistically significant.c. show causation in correlated variables		
d. both a and c ANSWER: a		
42. Cross-sectional studies a. follow disease-free participants over a b. follow participants with a disease over c. are also frequently referred to as longid d. compare different age groups or developments.	a long period of time. tudinal studies.	
43. A study that compares cholesterol levels of 1 study. a. experimental b. cross-sectional c. longitudinal	0-year-old children and 30-year-o	old adults would most likely be a(n)
d. ex post facto ANSWER: b		
 44. A study that follows the history of overweigh a. an experimental study. b. a longitudinal study. c. a cross-sectional study. d. a case-control study. 	nt male participants over a 30-yea	r period would be

ANSWER: b

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45. Which of these is NOT a characteristic a. Longitudinal studies are a comp b. Longitudinal studies tend to be c. Longitudinal studies frequently d. Longitudinal studies are prospec	parison of two separate groups. time consuming. require a team of researchers.	
ANSWER: a	sirve designs.	
46. An investigator measures blood pressing year for 20 years. This is an example of a. a longitudinal study.b. a cross-sectional study.c. an experimental study.	are in a group of college students and the	en repeats these measurements every
d. a clinical trial. ANSWER: a		
 47. Although causality is difficult to deter effect relationships? a. Correlational study b. Experimental design c. Ex post facto design d. Descriptive research ANSWER: b	mine, which scientific method most stro	ongly yields evidence for cause and
48. The cause of a disease or condition is a. case control studies.b. experimental designs.c. correlational studies.d. a single-participant design. ANSWER: b	most readily suggested by	
 49. In an experimental design that investign as the independent variable. b. the dependent variable. c. an extraneous variable. d. a placebo. ANSWER: a	gates the effects of a low carbohydrate d	liet on weight loss, diet would be
50. In an experimental design that investign variable would be a. stress. b. heart rate.	gates the effects of weight loss on heart i	rate in middle-aged men, the dependent

c. age.

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d. gender. ANSWER: b		

- 51. Which of the following is part of an ex post facto study but not an experimental study?
 - a. Manipulation of an independent variable
 - b. Control of extraneous variables
 - c. Measurement of a dependent variable
 - d. Inclusion of a subject variable

ANSWER: d

- 52. A study comparing smokers' and nonsmokers' scores on a personality inventory is most likely to be
 - a. an ex post facto design.
 - b. an experimental design.
 - c. a correlational study.
 - d. a retrospective study.

ANSWER: a

- 53. The branch of medicine that investigates factors contributing to the occurrence of diseases within a population is
 - a. psychoneuroimmunology.
 - b. behavioral medicine.
 - c. behavioral health.
 - d. epidemiology.

ANSWER: d

- 54. A risk factor is any characteristic or condition that
 - a. occurs with a lower frequency in peole with a disease than in people freee from that disease.
 - b. occurs with a higher frequency in people with a disease than in people free from that disease.
 - c. is any factor that has been demonstrated to be responsible for causing a disease.
 - d. is a measure of the dependent variable that is utilized in an experimental design.

ANSWER: b

- 55. Prospective and retrospective studies are both considered:
 - a. experimental studies.
 - b. longitudinal studies.
 - c. clinical trials.
 - d. correlational studies.

ANSWER: d

- 56. A study examined two groups of people—those who were exercising and those who weren't—and examined their past history to try to understand why some people currently exercise whereas others do not. This is an example of what type of correlational design?
 - a. Retrospective study
 - b. Prospective study

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c. Clinical trial study		
d. All of the above		
ANSWER: a		
57. Occasionally factors that predict death, or	, are not the same	factors that predict disease, or
a. mortality, morbidity		
b. morbidity, incidence		
c. morbidity, mortality		
d. mortality, incidence		
ANSWER: a		
58. Prevalence of an illness refers to		
a. the proportion of the population that has a d	_	
b. the number of new disease cases in a yea		
c. the percentage of new disease cases in a	•	
d. the percentage of total deaths caused by a ANSWER: a	a disease in one year.	
59. In general, chronic diseases are likely to have		
a. higher incidence than prevalence.		
b. higher prevalence than incidence.		
c. similar incidence and prevalence.		
d. no usual pattern between the two.		
ANSWER: b		
60. Acute diseases typically tend to		
a. be greater in prevalence than in incidence		
b. be similar in prevalence and in incidence		
c. be greater in incidence than in prevalence		
d. differ in ratios of incidence to prevalence	2.	
ANSWER: c		
61. Observational methods in epidemiology are mos	st closely related to which psyc	chology method?
a. Correlational studies		
b. Experimental designs		
c. Ex post facto designs		
d. Case history method ANSWER: a		
62. Prospective epidemiological studies are also		

a. cross-sectional.

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b. longitudinal.		
c. experimental.		
d. clinical trials.		
ANSWER: b		
63. Dr. Marcy is conducting an observational control group of people who do not have that a. Prospective		le who have a specific disease to a
b. Case-control		
c. Retrospective		
d. Both B and C		
ANSWER: d		
 64. In general, what is true about prospective at a. Retrospective studies obtain stronger b. Prospective studies obtain stronger c. Both obtain a similar strength of evid. Both obtain matching but weak evidence. 	er evidence. evidence. dence.	
ANSWER: b	chec.	
65. A study that begins with a group of particia. a retrospective study.b. a prospective study.	pants who already have a disease is 1	most likely to be
c. a correlational study.		
d. an experimental study. ANSWER: a		
66. Which type of study begins with a group of	of people who already have a disease	and then looks into factors that are
associated with that disease? a. Experimental b. Placebo c. Prospective d. Retrospective	r people who unearly have a discuse	
ANSWER: d		
 67. Which type of epidemiological study is me a. A case-control epidemiology study b. A retrospective epidemiology study c. A prospective epidemiology study d. A randomized and controlled trial 		in psychology?

ANSWER: d

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- 68. Which of the following situations would most seriously complicate the interpretation of causation in a research design?
 - a. A study in which participants are unaware they are part of an experiment
 - b. A study in which participants are aware they are part of an experiment
 - c. A design in which the participants are allowed to self-select
 - d. A design in which participants are not allowed to self-select

ANSWER: c

- 69. Psychologists and epidemiologists would agree that which type of study is the most desirable design, the "gold standard" of scientific research?
 - a. Case-control study
 - b. Randomized placebo-controlled double-blind trial
 - c. Natural experiment
 - d. Correlational study

ANSWER: b

- 70. Natural experiments in epidemiology are most similar to what kind of psychology study?
 - a. Experimental
 - b. Ex post facto
 - c. Correlational
 - d. Observational

ANSWER: b

- 71. In randomized controlled trials, researchers assign participants to treatment or control groups randomly. What is the best definition of "random" as it applies to this?
 - a. Group assignment is haphazard and not systematic.
 - b. Participants are unaware of their group assignment.
 - c. Researchers are unaware of the group assignments
 - d. Everyone has an equal chance in group assignment.

ANSWER: d

- 72. The CONSORT (Consolidated Standards of Reporting Trials) guidelines are designed to keep researchers from:
 - a. falsifying trial results to support a given treatment.
 - b. suppressing trial results not supporting a treatment.
 - c. publicizing trial results that support their treatment.
 - d. publicizing trial results which discredit a treatment.

ANSWER: b

- 73. A statistical technique for combining the results of several studies is
 - a. meta-analysis.
 - b. transactional analysis.
 - c. hypothesis testing.

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d. scientific myopia.		
ANSWER: a		
74. The results of a meta-analysis allow researchers to not, which is a. the statistical significance of the effect. b. the correlation between the variables. c. the estimated overall size of the effect. d. the main effects and interactions of variable ANSWER: c		of information that other statistical analyses do
 75. The Alameda County study is an example of a. an experimental longitudinal design. b. a prospective design. c. an experimental descriptive design. d. a correlational cross-sectional design. ANSWER: b 		
76. Based on the follow-up findings of the Alameda C die sooner? a. Ed, who smokes cigarettes and drinks alcoholob. Flora, who is obese and sleeps thirteen hour c. Gil, who skips breakfast, eats snacks, and hold. Hana, who lives alone, rarely goes out, has ANSWER: d	nol to excess rs every day as insomnia	of the following people would be most likely to
77. Mortality is to death as morbidity is toa. mortality.b. disease.c. trauma.d. gruesome. ANSWER: b		
 78. Research has found that obesity is related to high base as obesity is a risk factor for high blood pressure. b. obesity is an independent risk factor for high common overweight people die of high blood parts. d. thin people are protected against high blood ANSWER: a 79. A research study found a direct, consistent association relationship. 	h blood pressure. bressure. l pressure.	
a. negative		
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- b. dose-response
- c. positive
- d. causal

ANSWER: b

- 80. The ratio of the incidence or prevalence of a disease in an exposed group to the incidence or prevalence of that disease in the unexposed group is called
 - a. a risk factor.
 - b. dose-response relationship.
 - c. a relative risk.
 - d. causation.

ANSWER: c

- 81. The determination of causation is most easily accepted on the basis of
 - a. clinical trials.
 - b. studies using the risk factor approach.
 - c. community trials.
 - d. experimental studies.

ANSWER: d

- 82. Wendi is a long-time smoker, which carries a relative risk of about 23.0 for lung cancer death and 2.0 for heart disease mortality. From this information you can conclude that
 - a. Wendi is more than four times as likely to die from lung cancer as from heart disease.
 - b. Wendi's absolute risk for lung cancer is greater than her absolute risk for heart disease.
 - c. Wendi is about 23 times more likely to die of lung cancer than those who do not smoke.
 - d. Wendi is about 23 times more likely to die of heart disease than her twin sister.

ANSWER: c

- 83. Research has found that lung cancer increases with number of cigarettes smoked. This finding
 - a. indicates a negative relationship between smoking and lung cancer.
 - b. indicates a positive relationship between smoking and lung cancer.
 - c. indicates specific proof that smoking cigarettes causes lung cancer.
 - d. indicates smoking is more likely with personalities prone to cancer.

ANSWER: b

- 84. A direct, consistent relationship between the independent variable and the dependent variable
 - a. is an example of the placebo effect.
 - b. is an example of the nocebo effect.
 - c. defines dose-response relationship.
 - d. indicates a transverse relationship.

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ANSWER: c

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35. In order for epidemiologists to infer that a a that Behavior A has taken place be		ust observe
b. a dose-response relationship betwe	en Behavior A and Disease B.	
c. a decline in Disease B when Behav	vior A is eliminated.	
d. all of these relationships between v	variables exist.	
ANSWER: d		
86. After tobacco companies argued that ciganumans, how did epidemiological researcher a. They proved it through experiment	s establish such a causal relationship?	•
b. They inferred it as all seven criteria	a were met.	
c. They inferred it via overwhelming	evidence.	
d. They established it by doing both (b) and (c).	
ANSWER: d		
37. Theories should be viewed as		
a. unimportant to science.		
b. practical science tools.		
c. testable hypotheses.		
d. untested hypotheses.		
ANSWER: b		
88. We are designing a new instrument to me nappiness over several days, we are testing the a. external validity		
b. interrater reliability		
c. predictive validity		
d. test-retest reliability		
ANSWER: d		
39. For a scale that is measuring eating disordifferentiate between those who will get eating	_	
a. external validity		
b. interrater reliability		
c. predictive validity		
d. test-retest reliability		
ANSWER: c		
90. Which of these is NOT a function of a us	eful theory?	
a. Generating research		
b. Being a guide to action		
c. Eliminating researcher bias		

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d. Organizing research observations		
ANSWER: c		
91. Reliability means		
a. accuracy.		
b. structure.		
c. validity.		
d. consistency.		
ANSWER: d		
92. When scores on two administrations of the a. reliable.	ne same test are in close agreement, th	en that test is
b. valid.		
c. both reliable and valid.		
d. neither reliable nor valid.		
ANSWER: a		
93. Test X is designed to predict which indiversom Test X administered at the beginning of quit. This evidence suggests that Test X is		
a. reliable.		
b. valid.		
c. standardized.		
d. consistent.		
ANSWER: b		
94. The extent to which a test measures what a. test-retest reliability.	it is designed to measure is an expres	sion of
b. internal consistency.		
c. homogeneity.		
d. validity.		
ANSWER: d		
95. If a test foretells some future condition, in a. a negative validity.	t is said to have	
b. criterion validity.		
c. predictive validity.		
d. a lack of validity.		
ANSWER: c		
96. An accurate psychometric testing inst	rument	

a. must be both valid and reliable.

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b. may be valid but not reliable.		
c. may be reliable but not valid.		
d. must be given with time limits.		
ANSWER: a		
97. The placebo has treatment benefits but present	ents problems to researchers.	
a. True		
b. False		
ANSWER: True		
98. The placebo can affect psychological disord	lers, but it has no effect on biologic	cal processes.
a. True		
b. False ANSWER: False		
ANSWER. Faise		
99. When the placebo treatment is described in	a hidden manner, placebos can lead	d to fewer symptoms and better quality
of life when compared to no treatment. a. True		
b. False		
ANSWER: False		
ANGWEN. Taise		
100. Correlational studies yield information about c	ausation.	
a. True		
b. False		
ANSWER: False		
101. The number of new cases of AIDS per year rev	veals the incidence of that disease.	
a. True		
b. False		
ANSWER: True		
102. A prospective study begins with a group of par	ticipants who have a given condition of	or disease.
a. True		
b. False		
ANSWER: False		
103. With an ex post facto study, researchers compa	are two or more groups	
a. True	are two or more groups.	
b. False		
ANSWER: True		
104. The randomized, clinical trial is a type of r	retrospective study	
a. True	enospective study.	
b. False		

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ANSWER: False

105. The number of new cases of a particular disease during a specific period of time is incidence.

a. True

b. False

ANSWER: True

106. An experiment consists of at least two groups: an experimental group and a control group.

a. True

b. False

ANSWER: True

107. Discuss the disadvantages and advantages of placebos.

ANSWER:

- A. A placebo is a treatment that is capable of causing effects through expectation concerning the effectiveness of the treatment, independent of the influence of the treatment itself.
 - B. The disadvantages of placebos occur in research settings.
- 1. Placebos create problems in assessing the effectiveness of treatment because people who get treatment expect the treatment to be effective, and the people show improvement even to "sugar pills."
- 2. Placebos create problems in assessing the effectiveness of psychological treatment because people expect psychological interventions to work, and the people show improvement even if the treatment has no effective component.
 - C. The advantages of placebos can be seen in treatment situations.
- 1. Placebos bring about improvements and cures that are indistinguishable from those brought about by medically and psychologically effective treatments.
- 2. The placebo effect can add to the effect of medical and psychological treatment, boosting the effectiveness.

108. What are the advantages and disadvantages of experimental studies and correlational studies? What might prompt a researcher to choose a correlational design over an experimental design?

ANSWER: A. Experimental studies

- 1. Have the advantage of yielding information about causal relationships, a type of information that no other single method has the power to show.
- 2. Have the disadvantages of being difficult to conduct and somewhat artificial because experiments require the manipulation of independent variables and the control of all other variables, which includes appropriate control group (or groups).
 - B. Correlational studies
- 1. Have the advantage of yielding information about the degree and direction of relationships between variables.
 - 2. Have the disadvantage of being incapable of revealing causal relationships.
 - C. Researchers can make the choice of correlation over experimental method because
- 1. Some variables cannot be manipulated as part of an experiment due to ethical or practical problems in performing the manipulation. If a researcher had an interest in such variables, that researcher would have to choose another method of investigation.
- 2. Some research is designed to reveal strength of relationships between variables, which makes correlational research the best choice.

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 $109.\ Contrast\ and\ compare\ research\ methods\ in\ psychology\ with\ those\ in\ epidemiology.$

ANSWER:

- A. Psychology research
 - 1. Strives to understand behavior.
- 2. Includes correlational studies, cross-sectional and longitudinal studies, experimental studies, and ex post facto designs; all of these methods have different goals and are appropriate for answering different research questions.
 - B. Epidemiology research
- 1. Strives to understand the origins of disease, to determine if the hypotheses about disease drawn from other studies are consistent with the epidemiological data, and to evaluate preventive procedures.
- 2. Includes prospective and retrospective studies; randomized, controlled trials; and natural experiments.
 - 3. Each method has different requirements, and each answers different research questions.
 - C. Comparing the two areas shows that
- 1. Both psychology and epidemiology use methods based on observation as well as manipulation.
 - 2. Some of the methods are the same but the names may differ.
 - a. Experiments are common to both areas.
 - b. Ex post facto studies are similar to natural experiments.
 - c. Prospective studies are longitudinal.
- 3. Some of the methods differ; for example, retrospective studies do not appear in psychology.

110. Without regard to ethics or practicality, design a study that would settle the question of whether or not smoking <u>causes</u> lung cancer.

ANSWER:

- A. The critical study would have to be an experiment, the only method that allows the determination of causality.
 - 1. Such an experiment has not been done with humans for ethical reasons.
- 2. Such experiments have been done with nonhuman animals, but generalizing those results to humans has not been persuasive to everyone.
 - B. The experiment
 - 1. Begins with a representative sample of the population.
 - 2. Randomly assigns participants to two equal groups, smoking and nonsmoking.
- 3. Requires the smoking group to continue and the nonsmoking group to refrain from smoking.
 - 4. Continues for at least 20 years.
- 5. Controls for the events that might occur to the participants during the 20 or more years of the study so as to eliminate these factors as possible causes for lung cancer.
 - 6. Determines cause of death for all participants who died.
- 7. Compares the number of deaths due to lung cancer in the smoking versus nonsmoking group.
- 8. Allows for conclusions concerning the causal role of smoking in the development of lung cancer.
- C. Because only a controlled experiment like the one described here can form the basis for conclusions about causality, obvious practical and ethical problems exist in attempting to answer

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this question.

111. Discuss the strengths and weaknesses of the risk factor approach.

ANSWER: A. A risk factor is a characteristic that relates to the development of illness.

- 1. Risk factors are determined by correlational studies, and therefore, show no causality.
- 2. Many risk factors relate to the development of disease, yielding a list of risk factors each with different strengths of relationship to the disease.
 - B. The advantages of the risk factor approach include
 - 1. Furnishing a list of factors that relate to development of illness.
 - 2. Allowing some predictive power based on strength of the risk factor.
- 3. Allowing health care professionals to focus on prevention rather than forcing them to strive toward a cure.
 - C. The main weakness of the risk factor approach is its inability to demonstrate causation.
- 1. Even if a risk factor causes a disease, the risk factor approach is not capable of revealing such relationships.
- 2. The predictions of the development of disease based on the risk factor approach do not lead to precise predictions of who will get sick and who will remain disease free.
- 112. Contrast the concepts of reliability and validity. How is each important for psychological assessment? ANSWER:
 - A. Reliability is consistency of measurement.
 - 1. Reliability can refer to test-retest or interrater reliability.
 - 2. Reliability is typically expressed as a correlation coefficient, and this correlation expresses the degree of relationship between the two variables (first administration of a test versus second administration; Rater 1 versus Rater 2).
 - 3. High reliability coefficients indicate consistent measurement, but low reliability coefficients are difficult to interpret.
 - B. Validity is accuracy of measurement.
 - 1. Accuracy of measurement is judged against some independent criterion.
 - 2. Validity may also be expressed as a correlation, reflecting the degree of relationship between the test score and the criterion.
 - C. Both reliability and validity are necessary for good measurement.
 - 1. A measurement cannot be valid without being reliable, but a measurement can be reliable and still lack validity.
 - 2. These coefficients are important in deciding about the acceptability of scores on psychological tests, and higher reliability and validity scores indicate better tests.
- 113. Summarize seven criteria that epidemiologists use for determining a cause-and-effect relationship between a condition and a disease.

ANSWER:

Epidemiologists use a series of criteria to determine that a condition causes a disease. When their research findings meet all seven of these criteria, they can infer a causal relationship between an independent variable and a dependent variable. For example, smoking is an independent variable and lung cancer or heart disease is a dependent variable.

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A. The criteria are:

- 1. A dose-response relationship must exist between the condition and the disease.
- 2. Eliminating the condition must decrease the prevalence or the incidence of the disease.
- 3. The condition must have occurred before the disease occurred.
- 4. It must be physiologically plausible that a causal relationship exists between the condition and the disease.
- 5. Data obtained through research must consistently show a relationship between the condition and the disease.
- 6. The relationship between the condition and the disease must be relatively strong.
- 7. Well-designed research studies must be the bases for the relationship between the condition and the disease.
- 8. Discuss the role of theory in research

114. Discuss the role of theory in research, including defining a theory. How does psychology utilize theories? Identify three characteristics of a useful theory. How do theories further science?

ANSWER: Constructing theoretical models helps psychologists make sense of research results.

- 1. Health psychologists use theories and models to explain behaviors and conditions relating to health.
- 2. The uninformed may see theories as unimportant and/or impractical, but scientists see them as tools that are practical by directing their research and making it meaningful.
- B. A theory is defined as "a set of related assumptions that allow scientists to use logical deductive reasoning to formulate testable hypotheses" (Feist & Feist, 2006).
 - 1. Theories interact with scientific observations.
 - 2. Theories explain and give observations meaning; observations change and/or integrate with theories.
 - 3. Theories are dynamic. To explain increasingly pertinent observations, they expand and increase in power.
- C. In all scientific disciplines including health psychology, the role of theory includes:
 - 1. Generating hypothesis-testing research and descriptive research.
 - 2. Organizing, explaining, and making research findings understandable—including integrating existing knowledge and generating questions promoting more research.
 - 3. Guiding health psychology practitioners to act, i.e. to predict and change behavior. For example, each psychological theory guides corresponding therapeutic methods.
- D. Theories represent necessary and useful tools in developing any scientific discipline.
 - 1. They add to knowledge, make sense of information, and help both researchers and clinicians solve everyday problems.
- 115. Identify four beliefs that reflect accurate scientific information, and seven other beliefs people may have that reflect uninformed, unrealistic, and/or naïve ideas about research.
- ANSWER: A. For people to be informed consumers of health research, they need to check what things they believe about it.

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Four beliefs that reflect accurate scientific knowledge are:

- 1. The placebo effect can influence not only psychological, but also physical problems.
- 2. Patients with pain frequently experience relief after taking a placebo.
- 3. In general, information from longitudinal studies is more useful than information from studies of one individual.
- 4. The underlying cause of a disease is more likely suggested by experimental research results than by observational research results.
- B. Seven other beliefs that reflect uninformed, unrealistic, and/or naïve ideas about research are:
 - 1. A good way to evaluate treatment effectiveness is from personal testimonials.
 - 2. The importance of scientific research is accurately portrayed by TV/news reports.
 - 3. Research methodology is unimportant for evaluating result validity because all scientific methods give equally valuable results.
 - 4. Animal studies can be equally important as human studies for determining important health information.
 - 5. Valuable research is conducted by people outside the scientific community, but scientists attempt to discredit this work.
 - 6. Breakthroughs in science are an everyday occurrence.
 - 7. Because new health research reports frequently contract earlier results, the information cannot be used for good decision-making about personal health.

116. Summarize some guidelines for consumers to evaluate health research information that they find on the Internet.

ANSWER:

- A. Whereas people only heard about research from their doctors in the past, today the Internet (as well as TV and newspapers) publicizes it. However, this creates the problem that consumers may be reading untrustworthy, inaccurate information.
 - 1. News media may focus on the most sensationalistic parts to get people's attention, misleading them.
 - 2. Commercials may distort or disregard scientific evidence to sell health-related products or services.
- B. Since more than 80% of Internet users look there for health information, consumers should ask themselves some questions to evaluate this information:
- 1. Who is responsible for a website's information? Sites with addresses (URLs) ending in ".org" belong to nonprofits; in ".gov" to government agencies; and in ".edu" to educational institutions, and are more likely to offer unbiased information. Sites with addresses (URLs) ending in ".com" belong to commercial/for-profit companies, and may be primarily motivated by sales.
- 2. What is a website's purpose? Sites selling things are less likely to give unbiased information. As dramatic "breakthroughs" are rare in science, sites promising these are suspect.
- 3. What evidence supports a website's claim? It should present findings obtained through published research studies by qualified scientists with government, research hospital, or university affiliations; and should provide references to those studies. Commercial claims

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- and "satisfied customer" testimonials are typically not research evidence-based.
- 4. Is enough information available on a website for evaluating a scientific study's research design? Studies with larger samples (participant groups) yield more reliable results. Studies must use randomized, controlled experimental designs to imply causation of specific health outcomes; control for placebo effects; and, in retrospective or prospective designs, control sufficiently for potential confounding variables; and identify participant populations.
- 5. Is the health information on a website reviewed by an expert with research or medical credentials before it is posted?
- 6. Is the information on a website current? The site should identify the date of the most recent review or posting. Updated information is important, since scientific knowledge is continually evolving.
- 7. Recommended websites for current scientific health information include the National Institutes of Health (www.nih.gov) and the Centers for Disease Control and Prevention (www.cdc.gov).