

# **GRE<sup>®</sup>** **Psychology Test** **Practice Book**

## **This practice book contains**

- one actual, full-length GRE<sup>®</sup> Psychology Test
- test-taking strategies

## **Become familiar with**

- test structure and content
- test instructions and answering procedures

**Compare your practice test results with the performance of those who took the test at a GRE administration.**

**[www.ets.org/gre](http://www.ets.org/gre)**



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Test takers with disabilities or health-related needs who need test preparation materials in an alternate format should contact the ETS Office of Disability Services at [stassd@ets.org](mailto:stassd@ets.org). For additional information, visit [www.ets.org/gre/disabilities](http://www.ets.org/gre/disabilities).

# Overview

The GRE® Psychology Test consists of about 205 multiple-choice questions. Some of the stimulus materials, such as a description of an experiment or a graph, may serve as the basis for several questions. Testing time is 2 hours and 50 minutes; there are no separately-timed sections.

This publication provides a comprehensive overview of the GRE Psychology Test to help you get ready for test day. It is designed to help you:

- Understand what is being tested
- Gain familiarity with the question types
- Review test-taking strategies
- Understand scoring
- Practice taking the test

To learn more about the GRE Subject Tests, visit [www.ets.org/gre](http://www.ets.org/gre).

## Test content

The questions in the Psychology Test are drawn from the core of knowledge most commonly encountered in courses offered at the undergraduate level within the broadly defined field of psychology. A question may require recalling factual information, analyzing relationships, applying principles, drawing conclusions from data, and/or evaluating a research design.

The Psychology Test yields two subscores (experimental and social) in addition to the total score. The questions on which subscores are based are distributed throughout the test; they are not set aside and labeled separately, although several questions from a single content area may appear consecutively.

There are questions in three major content categories:

### I. EXPERIMENTAL SUBSCORE — (40%)

#### A. Learning (3-5%)

1. Classical Conditioning
2. Instrumental Conditioning
3. Observational Learning, Modeling
4. Theories, Applications and Issues

#### B. Language (3-4%)

1. Units (phonemes, morphemes, phrases)
2. Syntax

3. Meaning
4. Speech Perception and Processing
5. Reading Processes
6. Verbal and Nonverbal Communication
7. Bilingualism
8. Theories, Applications and Issues

#### C. Memory (7-9%)

1. Working Memory
2. Long-term Memory
3. Types of Memory
4. Memory Systems and Processes
5. Theories, Applications and Issues

#### D. Thinking (4-6%)

1. Representation (Categorization, Imagery, Schemas, Scripts)
2. Problem Solving
3. Judgment and Decision-Making Processes
4. Planning, Metacognition
5. Intelligence
6. Theories, Applications and Issues

#### E. Sensation and Perception (5-7%)

1. Psychophysics, Signal Detection
2. Attention
3. Perceptual Organization
4. Vision
5. Audition
6. Gustation
7. Olfaction
8. Somatosenses
9. Vestibular and Kinesthetic Senses
10. Theories, Applications and Issues

#### F. Physiological/Behavioral Neuroscience (12-14%)

1. Neurons
2. Sensory Structures and Processes
3. Motor Structures and Functions
4. Central Structures and Processes
5. Motivation, Arousal, Emotion
6. Cognitive Neuroscience
7. Neuromodulators and Drugs
8. Hormonal Factors
9. Comparative and Ethology
10. States of Consciousness
11. Theories, Applications and Issues

## II. SOCIAL SUBSCORE — (43%)

- A. Clinical and Abnormal (12-14%)
  - 1. Stress, Conflict, Coping
  - 2. Diagnostic Systems
  - 3. Assessment
  - 4. Causes and Development of Disorders
  - 5. Neurophysiological Factors
  - 6. Treatment of Disorders
  - 7. Epidemiology
  - 8. Prevention
  - 9. Health Psychology
  - 10. Cultural and Gender Issues
  - 11. Theories, Applications and Issues
- B. Lifespan Development (12-14%)
  - 1. Nature-Nurture
  - 2. Physical and Motor
  - 3. Perception and Cognition
  - 4. Language
  - 5. Intelligence
  - 6. Social and Personality
  - 7. Emotion
  - 8. Socialization, Family and Cultural Influences
  - 9. Theories, Applications and Issues
- C. Personality (3-5%)
  - 1. Theories
  - 2. Structure
  - 3. Assessment
  - 4. Personality and Behavior
  - 5. Applications and Issues
- D. Social (12-14%)
  - 1. Social Perception, Cognition, Attribution, Beliefs
  - 2. Attitudes and Behavior
  - 3. Social Comparison, Self
  - 4. Emotion, Affect and Motivation
  - 5. Conformity, Influence and Persuasion
  - 6. Interpersonal Attraction and Close Relationships
  - 7. Group and Intergroup Processes
  - 8. Cultural and Gender Influences
  - 9. Evolutionary Psychology, Altruism and Aggression
  - 10. Theories, Applications and Issues

## III. OTHER AREAS — (17%)

- A. General (4-6%)
  - 1. History
  - 2. Industrial-Organizational
  - 3. Educational
- B. Measurement and Methodology (11-13%)
  - 1. Psychometrics, Test Construction, Reliability, Validity
  - 2. Research Designs
  - 3. Statistical Procedures
  - 4. Scientific Method and the Evaluation of Evidence
  - 5. Ethics and Legal Issues
  - 6. Analysis and Interpretation of Findings

## Preparing for the Test

GRE Subject Test questions are designed to measure skills and knowledge gained over a long period of time. Although you might increase your scores to some extent through preparation a few weeks or months before you take the test, last minute cramming is unlikely to be of further help. The following information may be helpful.

- A general review of your college courses is probably the best preparation for the test. However, the test covers a broad range of subject matter, and no one is expected to be familiar with the content of every question.
- Become familiar with the types of questions in the GRE Psychology Test, paying special attention to the directions. If you thoroughly understand the directions before you take the test, you will have more time during the test to focus on the questions themselves.

## Test-Taking Strategies

The questions in the practice test illustrate the types of multiple-choice questions in the test. When you take the actual test, you will mark your answers on a separate machine-scorable answer sheet.

Following are some general test-taking strategies you may want to consider.

- Read the test directions carefully, and work as rapidly as you can without being careless. For each question, choose the best answer from the available options.
- All questions are of equal value; do not waste time pondering individual questions you find extremely difficult or unfamiliar.
- You may want to work through the test quite rapidly, first answering only the questions about which you feel confident, then going back and answering questions that require more thought, and concluding with the most difficult questions if there is time.
- If you decide to change an answer, make sure you completely erase it and fill in the oval corresponding to your desired answer.
- Questions for which you mark no answer or more than one answer are not counted in scoring.
- Your score will be determined by subtracting one-fourth the number of incorrect answers from the number of correct answers. It is unlikely that pure guessing will raise your score; it may lower your score. However, if you have some knowledge of a question and are able to rule out one or more of the answer choices as incorrect, your chances of selecting the correct answer are improved, and answering such questions will likely improve your score.
- Record all answers on your answer sheet. Answers recorded in your test book will not be counted.
- Do not wait until the last five minutes of a testing session to record answers on your answer sheet.

## What Your Scores Mean

Your raw score — that is, the number of questions you answered correctly minus one-fourth of the number you answered incorrectly — is converted to the scaled score that is reported. This conversion ensures that a scaled score reported for any edition of a GRE Psychology Test is comparable to the same scaled score earned on any other edition of the same test. Thus, equal scaled scores on a particular test indicate essentially equal levels of performance regardless of the test edition taken.

GRE Psychology Test total scores are reported on a 200 to 990 score scale in ten-point increments.

Test scores should be compared only with other scores on the Psychology Test. For example, a 740 on the Psychology Test is not equivalent to a 740 on the Biology Test.

## Taking the Practice Test

The Practice Test begins on page 7. The total time that you should allow for this practice test is 2 hours and 50 minutes. An answer sheet is provided for you to mark your answers to the test questions.

It is best to take this Practice Test under timed conditions. Find a quiet place to take the test and make sure you have a minimum of 2 hours and 50 minutes available.

To simulate how the administration will be conducted at the test center, print the answer sheet (pages 45 and 46). Then go to the back cover of the test book (page 42) and follow the instructions for completing the identification areas of the answer sheet. When you are ready to begin the test, note the time and begin marking your answers on the answer sheet. Stop working on the test when 2 hours and 50 minutes have elapsed.

## Scoring the Practice Test

The worksheet on page 43 lists the correct answers to the questions. Columns are provided for you to mark whether you chose the correct (C) answer or an incorrect (I) answer to each question. Draw a line across any question you omitted, because it is not counted in the scoring.

At the bottom of the page, enter the total number correct and the total number incorrect. Divide the total incorrect by 4 and subtract the resulting number from the total correct. Then round the result to the nearest whole number. This will give you your Raw Total score. Use the Total score conversion table on page 44 to find the Scaled Total score that corresponds to your Raw Total score.

Example: Suppose you chose the correct answers to 123 questions and incorrect answers to 42. Dividing 42 by 4 yields 10.5. Subtracting 10.5 from 123 equals 112.5, which is rounded to 113. The raw score of 113 corresponds to a scaled score of 570.

## Evaluating Your Performance

You may wish to compare your performance on the sample questions with the performance of others who took the questions.

The data in the worksheet on page 43 are based on the performance of a sample of the test takers who took the sample questions in October 2014. The numbers in the column labeled “P+” on the worksheet are indicative of the percentages of U.S. examinees who would answer each question correctly. You may use these numbers as a guide for evaluating your performance on each test question.

Interpretive data based on the scores earned by test takers in a recent three-year period are available on the GRE website at [www.ets.org/gre/subject/scores/understand](http://www.ets.org/gre/subject/scores/understand). The interpretive data shows, for each scaled score, the percentage of test takers who received lower scores. To compare yourself with this

population, look at the percentage next to the scaled score you earned on the practice test. Note that this interpretive data is updated annually and reported on GRE score reports.

It is important to realize that the conditions under which you tested yourself were not exactly the same as those you will encounter at a test center. It is impossible to predict how different test-taking conditions will affect test performance, and this is only one factor that may account for differences between your practice test scores and your actual test scores. By comparing your performance on this practice test with the performance of other individuals who took the GRE Psychology Test, however, you will be able to determine your strengths and weaknesses and can then plan a program of study to prepare yourself for taking the GRE Psychology Test under standard conditions.



FORM GR1481

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GRADUATE RECORD EXAMINATIONS®

# PSYCHOLOGY TEST

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**NO TEST MATERIAL ON THIS PAGE**



# PSYCHOLOGY TEST

Time — 170 minutes

205 Questions

**Directions:** Each of the questions or incomplete statements below is followed by five suggested answers or completions. In each case, select the one that is best and then completely fill in the corresponding space on the answer sheet.

1. The ability of a postsynaptic neuron to respond to the presence of a particular neurotransmitter that is released from a neighboring presynaptic neuron is dependent on which of the following conditions?
  - (A) The storage of the neurotransmitter in the presynaptic neuron
  - (B) The ability of the neurotransmitter to penetrate the membrane of the postsynaptic neuron
  - (C) The presence of receptors on the postsynaptic neuron that have an affinity for that particular neurotransmitter
  - (D) Whether or not the neurotransmitter is excitatory or inhibitory
  - (E) Whether or not the postsynaptic neuron has an axon that is myelinated
2. Critics have argued that projective tests are too
  - (A) brief
  - (B) concrete
  - (C) quantitative
  - (D) objective
  - (E) subjective
3. Organizing the string of letters B-F-J-T-A-V-K-C into JFK-TV-CAB is an example of
  - (A) simplifying
  - (B) clustering
  - (C) seriating
  - (D) chunking
  - (E) paraphrasing
4. When persuasive communications follow the peripheral route, they focus on which of the following?
  - (A) Beliefs
  - (B) Facts
  - (C) Values
  - (D) Emotions
  - (E) Cognitions
5. Consider the sentence “The dishwasher is running.” Which of the following is true?
  - (A) It can have more than one surface structure.
  - (B) It can have more than one deep structure.
  - (C) It is grammatically incorrect.
  - (D) It can have more than one syntax.
  - (E) It violates the rules of bottom-up processing.
6. According to the *Diagnostic and Statistical Manual of Mental Disorders*, Fifth Edition (*DSM-5*<sup>TM</sup>), children with separation anxiety disorder often experience which of the following symptoms in addition to excessive fear or anxiety over separation from attachment figures?
  - (A) Excessive concern about the safety and well-being of attachment figures
  - (B) Persistent desire to develop relationships with adults other than those who serve as major attachment figures
  - (C) Pervasive anxiety about failure in school or social situations
  - (D) Perceptual delusions that the child’s parents have been replaced by physically identical imposters
  - (E) Irresistible urges to perform and repeat a certain act over and over again

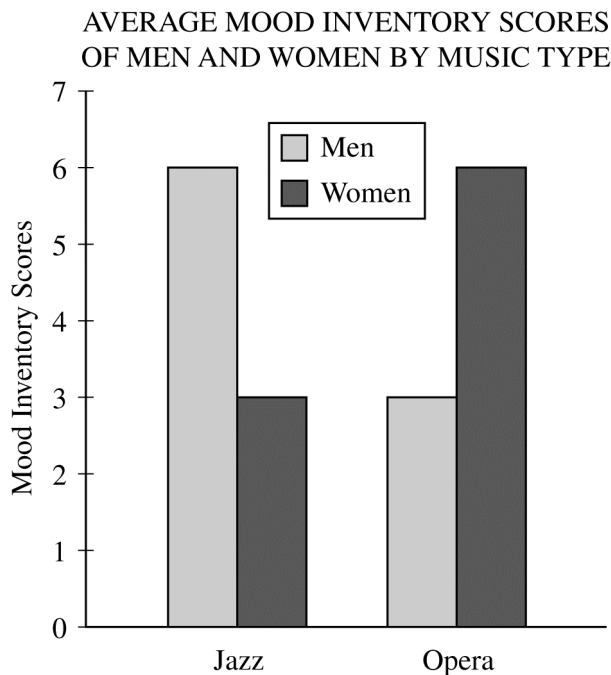
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7. Patients with bilateral damage to the hippocampal formation are tested on motor learning tasks such as the Tower of Hanoi. Studies show that the patients improve their performance with repeated exposures. When asked whether they have ever seen the task, even after numerous test sessions with it, they typically report not having seen it before. Such results have led to which of the following conclusions?
- (A) Patients with hippocampal injury suffer from confabulation similar to Korsakoff's patients.
  - (B) The inability to remember the Tower of Hanoi reflects a fundamental lesion-induced inability to name objects.
  - (C) Although procedural memory may not rely on normal hippocampal functioning, declarative memory does.
  - (D) Hippocampal injury enhances the acquisition of tasks relying on motor learning.
  - (E) Whereas procedural memory is severely impaired after hippocampal injury, reference memory is intact.
8. Which of the following is chemically similar to opiates, has the ability to reduce pain, and is blocked by the action of naloxone?
- (A) Norepinephrine
  - (B) Acetylcholine
  - (C) Serotonin
  - (D) Endorphin
  - (E) Dopamine
9. When stress is prolonged, the most likely result is
- (A) generalized weakening of the immune system
  - (B) damage to brain areas within the pons and medulla
  - (C) an increase in the level of naturally produced endorphins
  - (D) intensification of the effects of natural killer cells
  - (E) an increase in the number of T cells
10. The bradykinesia, cogwheel rigidity, and tremors that characterize Parkinson's disease are a result of the degeneration of dopaminergic cells in the
- (A) association cortex
  - (B) cerebellum
  - (C) hippocampus
  - (D) reticular formation
  - (E) substantia nigra
11. Which of the following best characterizes an infant's object concept at six months of age?
- (A) The infant's visual system is too immature to enable focusing on an object in the visual field.
  - (B) The infant is unable to track moving objects in the visual field.
  - (C) The infant is not surprised when two objects are seen to occupy the same space at the same time.
  - (D) The infant's understanding of object mechanics is as sophisticated as the adult's understanding.
  - (E) The infant understands objects to be solid bounded entities that take up space and move on continuous paths.
12. A 40-item vocabulary test was administered to a group of students. A second, similar test of vocabulary terms was administered to this same group of students approximately one week later. The researcher reported that the correlation between these two tests was  $r = .90$ . What type of reliability is represented in this example?
- (A) Test-retest
  - (B) Internal consistency
  - (C) Alternate forms
  - (D) Split-half
  - (E) Inter-rater

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**Questions 13-15 refer to the information below.**

A researcher was interested in whether or not jazz vocals and opera influence men's and women's emotional states. She hypothesized that these types of music influence men and women differently. In a study investigating this hypothesis, 40 men and 40 women heard a jazz piece, and 40 men and 40 women heard an operatic piece. The jazz piece was sung by a man, and the operatic piece was sung by a woman. Afterward, participants rated themselves on an inventory measuring emotional state. Higher scores on the inventory indicate positive mood. Results of this study are represented in the graph below.



13. Which of the following describes the pattern of findings displayed in the graph?
- (A) Men who heard the jazz piece and women who heard the operatic piece scored higher on the mood inventory than those in the other two groups.
  - (B) People who heard the operatic piece scored higher on the mood inventory than those who heard the jazz piece.
  - (C) People who heard the jazz piece scored higher on the mood inventory than those who heard the operatic piece.
  - (D) Men scored higher than women on the mood inventory regardless of the type of music they heard.
  - (E) Women scored higher than men on the mood inventory regardless of the type of music they heard.
14. The researcher concludes from her study that jazz music positively changes men's moods and operatic music positively changes women's moods. Which of the following invalidates that conclusion?
- (A) The participants were college students who were not music majors.
  - (B) Only one scale was used to measure mood.
  - (C) Men and women were randomly assigned to groups.
  - (D) Previous studies have shown that men are less emotional than women.
  - (E) Men's and women's moods were not measured before exposure to the two types of music.
15. Which of the following is the most serious problem with the methodology of this research?
- (A) Men and women did not listen to both types of music.
  - (B) The singers were not the same gender.
  - (C) The sample size was too small to draw a valid conclusion.
  - (D) The participants were not musicians.
  - (E) Only one type of music should have been used.

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16. The preference for a loosely knit social framework in which individuals are responsible only for the care of their children and themselves is known as
- (A) collectivism
  - (B) individualism
  - (C) ethnocentrism
  - (D) egocentrism
  - (E) interactionism
17. Over many trials a puff of air aimed at JoAnne's eyes is paired with a loud noise and a subtle smell. Afterward, it is very likely that JoAnne's conditioned eye blink will be under the control of the loud noise and not the subtle smell. This phenomenon is an example of
- (A) overshadowing
  - (B) conditioned suppression
  - (C) generalization
  - (D) counterconditioning
  - (E) reinstatement
18. The idea that people cope with stress by moving toward people, away from people, or against people is most consistent with the views of
- (A) Aaron Beck
  - (B) Carl Rogers
  - (C) Karen Horney
  - (D) Erik Erikson
  - (E) Erich Fromm
19. Which of the following is the best example of the categorical perception of human speech?
- (A) Listeners are able to categorize speech samples in terms of the gender of the speaker.
  - (B) Listeners are able to categorize a stream of words into a series of distinct words, because they can identify the brief pauses that appear between words.
  - (C) When a sound is presented that is intermediate between the phonemes /b/ and /p/, listeners report that they heard either a distinct /b/ or a distinct /p/.
  - (D) During speech perception, listeners automatically place phonemes into one of two categories, vowels or consonants.
  - (E) After hearing a sentence, people process each word and make decisions about the word's function within that sentence.
20. Alexander Thomas and Stella Chess described three categories of infants: easy, difficult, and slow to warm up. These are categories of
- (A) play
  - (B) emotions
  - (C) toilet training
  - (D) temperament
  - (E) smiles

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21. Which of the following types of cognitive abilities is LEAST likely to show a decline in late life?
- (A) Working memory
  - (B) Processing speed
  - (C) Fluid intelligence
  - (D) Semantic memory
  - (E) Episodic memory
22. Charles Scott Sherrington proposed that rapid stimulation of a specific synapse is likely to produce a cumulative effect in the postsynaptic cell because of
- (A) spatial summation
  - (B) temporal summation
  - (C) saltatory conduction
  - (D) neuromodulation
  - (E) spreading depression
23. Which of the following is an atypical developmental pattern characterized by stereotyped motor responses and poor communication skills?
- (A) Tardive dyskinesia
  - (B) Autism spectrum disorder
  - (C) Down syndrome
  - (D) Williams syndrome
  - (E) Attention-deficit/hyperactivity disorder
24. The sharing of information about oneself is referred to as
- (A) social exchange
  - (B) experience sampling
  - (C) communal sharing
  - (D) self-disclosure
  - (E) authority ranking
25. Research on children's social behavior shows that relative to young adolescent boys, young adolescent girls exhibit more of which type of aggression?
- (A) Hostile
  - (B) Instrumental
  - (C) Physical
  - (D) Relational
  - (E) Displaced
26. "I runned to the car" is an example of
- (A) telegraphic speech
  - (B) fast mapping
  - (C) overregularization
  - (D) overextension
  - (E) holophrasing
27. The visual pathway that tells us what we are looking at is called the
- (A) corticospinal tract
  - (B) solitary tract
  - (C) spinothalamic tract
  - (D) dorsal stream
  - (E) ventral stream

28. Which theorist revised Sigmund Freud's stages of development, replacing Freud's psychosexual stages with psychosocial stages?
- (A) Karen Horney
  - (B) Erik Erikson
  - (C) Alfred Adler
  - (D) Viktor Frankl
  - (E) Abraham Maslow
29. Using a pendulum apparatus, a participant attempts to derive the physical laws that determine the rate at which a pendulum swings. The participant's approach to solving this problem is to hold a relevant factor (X) constant and to vary a second relevant factor (Y), and then to reverse this procedure by holding Y constant and varying X. According to Jean Piaget, the participant's level of cognitive functioning is most likely
- (A) preoperational
  - (B) concrete operational
  - (C) formal operational
  - (D) sensorimotor
  - (E) conventional
30. A child has just developed the ability to lie with the intention of deceiving another person. This new ability is probably based most directly on a change in the child's
- (A) knowledge about mental representations
  - (B) skill in making transitive inferences
  - (C) formal operational thinking
  - (D) social referencing
  - (E) temperament
31. The standard deviation of a sample of test scores is a measure of the
- (A) central tendency of scores
  - (B) variability of individual scores
  - (C) concurrent validity of the test
  - (D) line of best fit
  - (E) normality of the distribution
32. Rapid eye movements are most closely associated with which of the following?
- (A) Alpha waves
  - (B) Delta waves
  - (C) Dreaming
  - (D) Apnea
  - (E) Stage II sleep
33. An investigator interested in the development of children's attitudes toward the police assessed and compared the attitudes of 250 eight year olds, 240 twelve year olds, and 245 sixteen year olds. She matched the three groups with regard to gender and socioeconomic background. The investigator's research design is best characterized as which of the following?
- (A) A case study
  - (B) A controlled experiment
  - (C) Sequential
  - (D) Cross-sectional
  - (E) Longitudinal
34. If a psychological disorder has a genetic basis, one would expect to find the highest concordance rate for the illness between which of the following?
- (A) Mother and child
  - (B) Father and child
  - (C) Identical twins
  - (D) Fraternal twins
  - (E) Nontwin siblings
35. According to Sigmund Freud, a child who grabs food from another child because of hunger is driven by
- (A) the id
  - (B) the ego
  - (C) environmental reinforcers
  - (D) the superego
  - (E) cognitive schemas

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36. All of the following statements about psychodynamic theorists are correct EXCEPT:
- (A) Karen Horney stressed the importance of social relationships between children and their parents.
  - (B) Alfred Adler claimed that childhood feelings of inferiority lead to striving for superiority.
  - (C) Carl Jung identified two components of the unconscious: the preconscious and the formal unconscious.
  - (D) Erik Erikson described conflicts at different stages of development.
  - (E) Sigmund Freud stressed the interaction of the id, the ego, and the superego.
37. Juanita's classmates enjoy being with her because she is always sociable, easygoing, and lively. On Eysenck's basic personality dimensions, she would be classified as
- (A) unstable introverted
  - (B) extroverted stable
  - (C) passive-aggressive
  - (D) intrinsically motivated
  - (E) cyclothymic dysthymic
38. Annette is looking for a psychotherapist whose clinical work is rooted in object relations theory. The best match for Annette would be a therapist who emphasizes
- (A) the use of medication
  - (B) the here and now
  - (C) cognitive distortions
  - (D) early life relationships
  - (E) counterconditioning
39. A client sleeps sixteen hours a day. According to the *Diagnostic and Statistical Manual of Mental Disorders*, Fifth Edition (DSM-5™), the client most likely has which of the following sleep disorders?
- (A) Circadian rhythm sleep-wake
  - (B) Insomnia
  - (C) Hypersomnolence
  - (D) Sleep arousal
  - (E) Nightmare
40. Kyle mixes his blue paint with Jamie's yellow paint. The resulting green color occurs because
- (A) equal stimulation of the blue receptors and the yellow receptors in the eyes produces the sensation of green
  - (B) blue wavelengths and yellow wavelengths add together to make green wavelengths
  - (C) the blue and the yellow absorb all the other wavelengths except green
  - (D) paints involve additive rather than subtractive mixing
  - (E) blue wavelengths and yellow wavelengths subtract red wavelengths equally to make green

**Questions 41-43 refer to the following passage.**

Depression is more common among people with insomnia than among those with satisfactory sleep. To determine the reasons for this relationship, investigators identified 40 people suffering from both depression and insomnia. For each of these 40, they paired two other people of the same gender and age who were neither depressed nor suffering from any sleep disorder. One of these was designated the “normal-sleep control,” and the other was designated the “yoked control.” All participants slept in a laboratory for one week. The normal-sleep control person slept without restrictions. During that same time, the yoked control was permitted to sleep when the depressed-insomniac person slept, but was required to awaken whenever the depressed-insomniac person awakened.

A valid questionnaire for measuring depression was administered at the end of the one-week study. Assume that higher scores on the questionnaire reflect greater depressive symptomatology.

41. What pattern of results on the depression questionnaire would justify the conclusion that sleeplessness leads to depression?
- (A) Normal sleep control < yoked control = depressed
  - (B) Normal sleep control = yoked control = depressed
  - (C) Normal sleep control = yoked control < depressed
  - (D) Yoked control < normal sleep control < depressed
  - (E) Yoked control < normal sleep control = depressed
42. What pattern of results on the depression questionnaire would one expect if depression were to arise for reasons other than sleeplessness?
- (A) Normal sleep control < yoked control = depressed
  - (B) Normal sleep control = yoked control = depressed
  - (C) Normal sleep control = yoked control < depressed
  - (D) Yoked control < normal sleep control < depressed
  - (E) Yoked control < normal sleep control = depressed
43. Suppose that the results were consistent with the hypothesis that sleeplessness does not lead to depression. Of the following, which would be the most serious criticism of the study and its conclusion?
- (A) Although the questionnaire to measure depression was known to be valid, it may not have been reliable.
  - (B) The study failed to examine other factors that might also contribute to depression.
  - (C) The yoked-control group was unnecessary.
  - (D) One week of sleep deprivation may have been inadequate to produce depression.
  - (E) The normal sleep-control group was unnecessary.

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44. Which of the following predictions is reasonable based on Baddeley and Hitch's theory of working memory?
- (A) If two tasks using the same component are done concurrently, performance will be improved on one or both.
  - (B) If two tasks using the same component are done concurrently, performance will be impaired on one or both.
  - (C) If two tasks that do not use the same component are done concurrently, performance will be improved on one or both.
  - (D) If two tasks that do not use the same component are done concurrently, performance will be impaired on one or both.
  - (E) If two tasks are done concurrently, whether or not they use the same component, performance will be unchanged.
45. Which of the following was the first to systematically and empirically study memory by developing an innovative approach based on consonant-vowel-consonant combinations?
- (A) Hermann Ebbinghaus
  - (B) James Mill
  - (C) John B. Watson
  - (D) Max Wertheimer
  - (E) Christian von Ehrenfels
46. Marc recently moved to an area that experienced a large number of tornadoes, which frightened him greatly. Every time a storm containing high winds emerged, the lights in his home flickered. When the lights in his home flickered on a clear day, he became quite fearful and searched for a safe place to hide. What is the conditioned stimulus in this scenario?
- (A) High winds
  - (B) Lights flickering
  - (C) Hiding place
  - (D) Storms
  - (E) Fear
47. Which of the following learning theorists first demonstrated that a neutral stimulus could acquire the ability to evoke a response originally attributed to another stimulus?
- (A) Michael Domjan
  - (B) Ivan Pavlov
  - (C) Albert Bandura
  - (D) B. F. Skinner
  - (E) E. L. Thorndike
48. Which memory store is believed to have the largest capacity?
- (A) The sensory store
  - (B) The short-term store
  - (C) The long-term store
  - (D) The phonological loop
  - (E) The visuospatial sketch pad

49. The use of polite words such as “please” and “thank you” in everyday speech is called
- (A) morphology
  - (B) syntax
  - (C) semantics
  - (D) pragmatics
  - (E) phonetics
50. Which of the following factors would best explain why monozygotic twins, raised together, nevertheless develop different personalities?
- (A) Shared genetic material
  - (B) Non-shared genetic material
  - (C) Shared environments
  - (D) Non-shared environments
  - (E) Shared histories
51. Which of the following visual experiences most attracts a newborn’s gaze?
- (A) The color beige
  - (B) The color black
  - (C) The color white
  - (D) A black-and-white pattern
  - (E) A beige-and-white pattern
52. Edmundo got into an argument with the grocery clerk. When he returned to his car after shopping, he discovered that he received a parking ticket. Edmundo furiously crumpled up the ticket and threw it on the ground. When his friend Terri told him to calm down, he screamed at her to mind her own business. Which of the following theories best accounts for Edmundo’s behavior?
- (A) Excitation transfer
  - (B) Social identity
  - (C) Correspondent inference
  - (D) Distraction-conflict
  - (E) Normative focus
53. Cleotha finds out that her roommate Leontyne is a better pool player than she is. However, Cleotha reminds herself that she can play poker better than Leontyne. Cleotha is engaging in which of the following?
- (A) Self-verification
  - (B) Self-efficacy
  - (C) Self-affirmation
  - (D) Self-monitoring
  - (E) Self-awareness
54. According to the theory of cognitive development proposed by Lev Vygotsky, children learn best by working
- (A) independently
  - (B) with adults and advanced peers
  - (C) with less advanced peers
  - (D) with visually simple objects
  - (E) with visually complex objects
55. According to Jean Piaget, young infants are in which stage of development?
- (A) Proximal
  - (B) Psychosocial
  - (C) Attachment
  - (D) Sensorimotor
  - (E) Preoperational
56. Which of the following predictions is the best example of context-dependent memory?
- (A) Concrete words are easier to recall than abstract words.
  - (B) Auditory encoding is superior to visual encoding.
  - (C) Information is better recalled when learning and testing occur in the same room.
  - (D) Information is better recalled when it is deeply encoded.
  - (E) In a list of words, those in bold are easier to recall.
57. Fred was keenly interested in a new science fiction film and therefore was surprised when he arrived at the theater on opening night and found only a few people there. Fred’s mistaken judgment of the popularity of the film illustrates
- (A) the self-serving bias
  - (B) self-handicapping
  - (C) pluralistic ignorance
  - (D) the actor-observer effect
  - (E) the false consensus effect

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58. According to the evolutionary principle of kin selection, people are more likely to help someone who
- (A) is physically attractive
  - (B) shares their genes
  - (C) will return the favor
  - (D) is a potential mate
  - (E) is of higher status
59. Manic episodes are a defining feature of which of the following disorders?
- (A) Major depressive
  - (B) Autism spectrum
  - (C) Posttraumatic stress
  - (D) Bipolar
  - (E) Schizophrenia spectrum
60. Newlyweds Layla and Keith both have normal color vision, but Layla carries a recessive gene for color deficiency. Which of the following best describes the probabilities of color deficiency in their children?
- (A) Half of their daughters will be color-deficient, but none of their sons will.
  - (B) Half of their sons will be color-deficient, but none of their daughters will.
  - (C) All of their sons and half of their daughters will be color-deficient.
  - (D) All of their daughters and half of their sons will be color-deficient.
  - (E) None of their children will be color-deficient.
61. An individual suffering from damage to Wernicke's area would most likely exhibit which of the following behaviors?
- (A) Impaired comprehension of language
  - (B) An inability to determine what is socially acceptable behavior
  - (C) An explosive temper with even slight provocation
  - (D) An inability to form new memories
  - (E) An uncontrollable tremor of the hands
62. Young children form rudimentary sentences that resemble telegrams even though they have never heard anyone make such utterances before. This is evidence of
- (A) reinforcement theory
  - (B) a universal grammar
  - (C) pragmatics
  - (D) semantics
  - (E) morphology
63. A fixed action pattern is defined as a response to a
- (A) secondary reinforcer
  - (B) generalization gradient
  - (C) conditioned stimulus
  - (D) drop in reticular activity
  - (E) sign stimulus
64. Based on research by Mary Ainsworth, which of the following best describes how an infant who has formed a secure maternal attachment would be expected to respond to the mother's leaving and/or returning?
- (A) Upon the mother's return, the infant will be pleased to see her and will go to her to be held.
  - (B) Upon the mother's return, the infant will cry and will cling to her.
  - (C) Upon the mother's return, the infant will actively avoid her.
  - (D) The infant will not be upset by the mother's leaving and will not go to the mother upon her return.
  - (E) The infant will cry and cling to the mother as she leaves and will continue to cry throughout the mother's absence.
65. Damaging the suprachiasmatic nucleus of the hypothalamus in rats will
- (A) impair the ability to acquire spatial information
  - (B) reduce the threshold for pain resulting from injury to the limbs
  - (C) promote the development of maternal behavior in males
  - (D) interfere with the biological clock that is synchronized with light
  - (E) decrease aggressive behavior directed at rats of the same sex

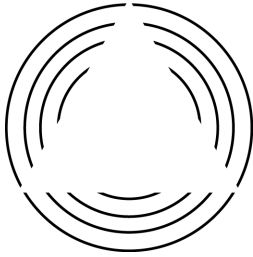
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66. Which of the following increases the power of a statistical test?
- (A) Changing alpha from .05 to .01
  - (B) Changing alpha from .10 to .01
  - (C) Changing from a two-tailed to a one-tailed test
  - (D) Using a smaller critical area in the distribution of sample means
  - (E) Decreasing the sample size from  $N = 100$  to  $N = 75$
67. Aunt Sybil paid her first visit to her niece Angela when the baby was 3 months old. Aunt Sybil enjoyed holding and playing with the baby. Aunt Sybil visited again when Angela was 9 months old. She was dismayed when the little girl took one look at her and burst into tears. Angela was exhibiting a normal emotional reaction called
- (A) separation anxiety
  - (B) avoidant attachment
  - (C) ambivalent attachment
  - (D) emotional regulation
  - (E) stranger anxiety
68. Which of the following therapeutic techniques can be explained by classical conditioning principles?
- (A) Modeling and implosion
  - (B) Modeling and systematic desensitization
  - (C) Modeling and token economies
  - (D) Systematic desensitization and flooding
  - (E) Systematic desensitization and token economies
69. Joe's therapist frequently exhibits genuineness and empathy toward Joe. These elements are defining features of which of the following therapeutic approaches?
- (A) Existential
  - (B) Psychoanalytic
  - (C) Behavioral
  - (D) Cognitive
  - (E) Client-centered
70. According to evolutionary psychologists, which of the following is the primary reason that men tend to prefer as mates younger and more attractive women?
- (A) These characteristics signal good health and ability to bear children.
  - (B) Modern societies all evolved from a single ancient culture in which the importance of these characteristics was noted.
  - (C) The belief that younger and attractive women tend to be especially attentive mothers is characteristic of many cultures.
  - (D) Young, attractive women arouse parental or caretaking impulses.
  - (E) Men's preferences have been heavily shaped by images in the mass media.
71. Georgia sees a sign in the bathroom stall that says, "Do not write on the walls under any circumstances!" Georgia takes out her pen and begins to write all over the walls. According to social psychologists, Georgia is experiencing
- (A) selective avoidance
  - (B) trivialization
  - (C) reactance
  - (D) symbolic self-awareness
  - (E) peer pressure
72. Eric is frustrated with one of his coworkers who displays no regard for the rights of others, no remorse when he abuses others, and a repeated pattern of stealing equipment and petty cash. It is most likely that this coworker has which of the following personality disorders?
- (A) Antisocial
  - (B) Paranoid
  - (C) Narcissistic
  - (D) Histrionic
  - (E) Borderline
73. The tendency to attribute your successes to dispositional factors and your failures to situational factors is called the
- (A) autokinetic effect
  - (B) hostile attribution bias
  - (C) self-serving bias
  - (D) self-fulfilling prophecy
  - (E) fundamental attribution error

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74. Free will plays the greatest role in which of the following?
- (A) Sigmund Freud's psychoanalytic theory
  - (B) B. F. Skinner's behaviorism
  - (C) Carl Rogers' humanistic psychology
  - (D) Hans Eysenck's trait model
  - (E) William Sheldon's theory of somatotypes and temperament



75. The figure above illustrates
- (A) a boundary extension
  - (B) a geon
  - (C) an illusory contour
  - (D) a mach band
  - (E) a texture gradient
76. When studying moral development, Lawrence Kohlberg used moral dilemmas such as the Heinz dilemma, in which a husband must decide whether to steal a drug to prolong his wife's life because they cannot afford the drug. A child who is in the conventional level of Kohlberg's theory will use which reasoning when faced with the Heinz dilemma?
- (A) It is against the law to steal, so the husband should not steal the drug.
  - (B) It is up to the husband to decide what he wants to do. If it is worth risking his life, he will steal the drug.
  - (C) The husband should not steal the drug because then he will have to go to jail.
  - (D) The husband should steal the drug because the value of human life outweighs the economic cost of the drug.
  - (E) The husband should steal the drug to avoid feeling bad.

77. What term is best used to describe the smallest meaningful unit of a language?
- (A) Phone
  - (B) Phoneme
  - (C) Morpheme
  - (D) Syntax
  - (E) Semantic
78. According to Johnston and Heinz's multimode theory of attention, why is it dangerous to drive an automobile while talking on a cell phone?
- (A) Driving is an automatic task, but talking requires attentional resources.
  - (B) Talking on the phone results in the filtering of all other stimuli, including those relevant to driving.
  - (C) People can both talk and drive effectively, but they will not be able to remember anything about either the phone conversation or events related to driving.
  - (D) Both talking and driving require attentional resources, and adequate attentional resources may not be allocated to driving.
  - (E) Talking is an automatic task, but attentional resources need to be allocated to driving.
79. The transformation of energy into electrical impulses is
- (A) neural processing
  - (B) transduction
  - (C) sensation
  - (D) a difference threshold
  - (E) an energy current
80. As a color blindness test, Hector and his friends are asked to judge whether or not a red jelly bean is similar to the blue and green jelly beans in a jar. Hector's friends all state that the red jelly bean is similar to the blue and green ones. Hector knows this is not true, but he gives the same answer. Hector's behavior here is an example of which of the following concepts?
- (A) Private conformity
  - (B) Private self-consciousness
  - (C) Public conformity
  - (D) Public self-consciousness
  - (E) Public goods dilemma

81. The action potential is triggered at which of the following parts of a neuron?
- (A) Dendrite
  - (B) Soma
  - (C) Terminal button
  - (D) Axon hillock
  - (E) Spine
82. What function is served by the white myelin sheath that may cover an axon?
- (A) It protects the axon from overheating.
  - (B) It protects the axon from microorganisms.
  - (C) It increases the speed of the electrical impulses.
  - (D) It provides the axon with nutrients.
  - (E) It prohibits the axon from carrying impulses.
83. Which of the following is the name given to the process of differentiating oneself from others by emphasizing one's uniqueness?
- (A) Personality
  - (B) Impression formation
  - (C) Deindividuation
  - (D) Individuation
  - (E) Social categorization
84. Gonadal hormones can act early in life to irreversibly determine a rat's mate selection through effects referred to as
- (A) activational
  - (B) distributional
  - (C) initiating
  - (D) organizational
  - (E) triggering
85. Which of the following theories places the greatest emphasis on the effects of early childhood experiences on personality?
- (A) Psychodynamic
  - (B) Humanistic
  - (C) Trait
  - (D) Social cognitive
  - (E) Behavioral
86. A neuron that receives excitation from other neurons and conducts impulses from its soma in the spinal cord to muscle or gland cells is called a
- (A) sensory neuron
  - (B) motor neuron
  - (C) neuroglia
  - (D) oligodendrocyte
  - (E) Schwann cell
87. The inability to recognize a once-familiar face, while still being able to accurately describe elements of the face, is a characteristic symptom of
- (A) amnesia
  - (B) blindsight
  - (C) prosopagnosia
  - (D) sensory neglect
  - (E) transcortical aphasia
88. When Latoya was younger, she decided which ice cream cone was bigger by always picking the taller one. Now that she's eight years old, she makes more-accurate choices by considering the width and depth of the cone as well as its height. Latoya has learned to
- (A) assimilate
  - (B) use seriation
  - (C) show formal operations
  - (D) display class inclusion
  - (E) decenter
89. Of the following, which is the most plausible source of deficits such as inability to recognize faces, tendency to ignore the left half of the body, and difficulty perceiving visual motion?
- (A) Different kinds of dietary deficiencies
  - (B) Inadequate development through different Piagetian stages
  - (C) Fixation at different Freudian stages
  - (D) Damage to different areas of the brain
  - (E) Deficits of different neurotransmitters
90. Ability derived directly from previous experience is known as
- (A) crystallized intelligence
  - (B) fluid intelligence
  - (C) formal operations
  - (D) concrete operations
  - (E) prospective memory

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91. Cohorts born in different decades have been found to differ in their personality characteristics during adolescence. Such findings most directly suggest that personality development

- (A) follows a different course for males and for females during late childhood
- (B) is influenced primarily by hormonal factors
- (C) is based on experience during a critical period in early childhood
- (D) is influenced by the historical context in which it occurs
- (E) is influenced more by peers than by parents during adolescence

92. “Of several responses made to the same situation, those which are accompanied or closely followed by satisfaction to the animal will, other things being equal, be more firmly connected with the situation . . . ; those which are accompanied or closely followed by discomfort to the animal will, other things being equal, have their connections with that situation weakened.”

The statement above was written by

- (A) Albert Bandura
- (B) Edwin Guthrie
- (C) Ivan Pavlov
- (D) B. F. Skinner
- (E) Edward Thorndike

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**Questions 93-97 refer to the passage below.**

When Dr. Elkin interviewed Michael, she found that his behavior was very strange and his thinking seemed paranoid and bizarre. Michael seemed to be having a conversation with his mother, who he insisted was sitting in the room with him, although she had died two years earlier. When Michael spoke to Dr. Elkin, he told her that the cashiers at the local grocery store were intentionally contaminating the cereals and bottled water he customarily purchased. On one occasion he harmed a cashier as she picked up the telephone to do a price check. In explaining his action, Michael insisted that he heard his mother's voice over the loudspeaker telling him to hurt the cashier.

Shortly after the death of his mother, Michael quit college, terminated all his social relationships and began an unhealthy diet consisting exclusively of sweetened cereals and water. Last year, Michael's father had taken him to see a psychiatrist, who diagnosed Michael as having schizophrenia, and recommended psychotherapy and antipsychotic medication, but Michael vehemently refused both. Michael's father indicated that Michael's grandfather also had been classified as exhibiting schizophrenia.

93. Which of the following best represents Michael's mental disorder according to the diathesis-stress model?

Diathesis

- (A) Genetic history of schizophrenia
- (B) Death of his mother
- (C) Genetic history of schizophrenia
- (D) Death of his mother
- (E) Dropping out of college

Stress

- Death of his mother
- Genetic history of schizophrenia
- Paranoid beliefs
- Paranoid beliefs
- Death of his mother

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94. Michael's false belief that the cashiers were plotting against him is an example of
- (A) a hallucination
  - (B) a delusion
  - (C) a cognitive distortion
  - (D) an attribution error
  - (E) a dysfunctional attitude
95. Michael reported that he harmed the cashier in response to an instruction from his dead mother. This phenomenon is called
- (A) a delusion of reference
  - (B) a somatic delusion
  - (C) a gustatory hallucination
  - (D) a command hallucination
  - (E) magical thinking
96. Which section of a report would most likely include a description of Michael's life experiences that are relevant to his mental disorder?
- (A) Diagnosis
  - (B) Mental status
  - (C) General assessment of functioning
  - (D) Treatment plan
  - (E) Psychosocial history
97. In the case of Michael, which of the following statements is true regarding the positive and negative symptoms of schizophrenia?
- (A) Hearing voices is a positive symptom.
  - (B) The fact that Michael's grandfather had schizophrenia is a positive symptom.
  - (C) The perception of his mother instructing him to harm the cashier is a negative symptom.
  - (D) Michael's vehement refusal to take medication is a negative symptom.
  - (E) Michael's unhealthy diet is a negative symptom.
98. Which of the following approaches to assessment of intelligence is most consistent with the theories of both Howard Gardner and Robert Sternberg?
- (A) Using biological indexes of intelligence instead of the Stanford-Binet IQ test
  - (B) Narrowing the definition of intelligence to include fewer key skill areas
  - (C) Increasing the reliability of IQ tests
  - (D) Increasing the emphasis on measuring *g* rather than specific abilities
  - (E) Increasing the emphasis on measuring specific abilities rather than *g*



99. Personality disorders are characterized by which specific symptoms?

- (A) Permanent severe deficits of cognitive functioning
- (B) Loss of contact with reality
- (C) Long-term maladaptive traits and behavior patterns
- (D) Unexplained physical symptoms
- (E) Extreme alternations in mood

100. Which of the following are two competing theories of color vision that describe events that take place at different levels of the nervous system?

- (A) Frequency versus place
- (B) Trichromatic versus opponent-process
- (C) Specificity versus pattern
- (D) Frequency versus pattern
- (E) Trichromatic versus specificity

101. Smokers were randomly assigned to one of two groups. Those in the experimental group were told that they would be listening to tapes with subliminal messages urging them to quit smoking. Those in the control group did not listen to the tapes, nor were they told about them. A week after listening to the tapes, members of the experimental group had decreased their smoking significantly more than members of the control group. The investigator concluded that listening to the subliminal messages reduces smoking. Which of the following, if true, casts the greatest doubt on the investigator's conclusion?

- (A) During the week, some participants in the control group read articles on the hazards of smoking.
- (B) During the week, only a few of the experimental participants reduced their smoking appreciably.
- (C) Participants in the experimental group were influenced by their expectations of the tapes' effects.
- (D) The two groups had similar initial (baseline) smoking rates.
- (E) The two groups were both quite large, but unequal in size.

**Questions 102-103 refer to the following information.**

A researcher conducted a study to determine the effects of gender and status on the perceived credibility of an eyewitness testifying in a trial. Participants watched one of four video recordings depicting the eyewitness and rated the credibility of the eyewitness.

102. What type of design was used in this study?

- (A) Between-subjects
- (B) Within-subjects
- (C) Between- and within-subjects
- (D) Multivariate correlational
- (E) Longitudinal

103. In order to determine whether gender, as a specific variable, had an effect on perceived credibility of the eyewitness, which of the following must be significant?

- (A) The main effect of gender
- (B) A post hoc analysis of gender
- (C) The main effect of status
- (D) A post hoc analysis of status
- (E) The interaction between gender and status

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104. Correlations of IQ scores are highest for which of the following pairs?

- (A) Mother and child, when the child is reared by both birth parents
- (B) Father and child, when the child is reared by both birth parents
- (C) Siblings reared together in a birth family
- (D) Monozygotic twins reared apart in adoptive families
- (E) Dizygotic twins reared together in a birth family

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105. Melody exclaims, "I got a C- on the statistics exam, and I was miserable until I thought how terrible it must be for those who got F's." Melody's attitude is an example of which of the following?
- (A) Social facilitation
  - (B) Social comparison
  - (C) Social anxiety
  - (D) Social learning
  - (E) Social validation
106. Damage to which area of the brain leads to a decrease in physically aggressive behavior and social rank?
- (A) Lateral hypothalamus
  - (B) Hippocampus
  - (C) Amygdala
  - (D) Basal ganglia
  - (E) Medial geniculate
107. Consider the following version of an interference task.
- As fast as possible, say how many items are in each row for set 1 and for set 2.
- | <u>Set 1</u> | <u>Set 2</u> |
|--------------|--------------|
| \$\$\$       | 222          |
| #            | 5            |
| **           | 44           |
| &&&&         | 3333         |
- If participants can say how many items are in set 1 faster than they can say how many are in set 2, the result is most consistent with
- (A) task-general resources
  - (B) the pop-out effect
  - (C) context-dependent memory
  - (D) the Stroop effect
  - (E) task-specific resources
108. Researchers using a variety of methods, peoples, and cultures have concluded that five major personality traits exist. The traits are
- (A) sociability, suspiciousness, practicality, dependency, and shyness
  - (B) enthusiasm, calmness, adventure, docility, and hypochondria
  - (C) extraversion, agreeableness, conscientiousness, emotional stability, and openness to experience
  - (D) obedience, self-control, astuteness, tension, and self-criticism
  - (E) emotional stability, apprehension, social awareness, independence, and avoidance
109. Mel is doing very well academically in college, but feels academically incompetent. His therapist has instructed him to explain in writing how his hard work and personal abilities contributed to each of the good grades he received during the previous semester. This activity is characteristic of which of the following therapeutic approaches?
- (A) Psychoanalytic
  - (B) Cognitive
  - (C) Biomedical
  - (D) Behavioral
  - (E) Gestalt
110. The Flynn effect is the phenomenon of
- (A) the gradual increase in IQ scores over the last century
  - (B) higher IQ scores among children who were breast-fed
  - (C) higher IQ scores among people with higher levels of education
  - (D) a stronger correlation between the IQ scores of monozygotic twins than between those of dizygotic twins
  - (E) a stronger correlation between the IQ scores of siblings reared together than between those of siblings reared apart

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111. In which of the following cognitive tasks do the performances of older adults show the greatest difference compared to the scores of young adults?
- (A) Divided attention task
  - (B) Recognition memory of narrative
  - (C) Recognition memory of word list
  - (D) Semantic memory test
  - (E) Implicit memory test
112. Sertraline (Zoloft®) and fluoxetine (Prozac) are designed to treat depression by
- (A) altering genetic factors
  - (B) increasing production of norepinephrine
  - (C) increasing metabolism of epinephrine
  - (D) decreasing levels of dopamine in the synapse
  - (E) decreasing reuptake of serotonin
113. According to current conceptions, working memory is characterized by
- (A) stress on episodic rather than semantic memory
  - (B) its unitary nature
  - (C) maintenance of information in current use
  - (D) greater importance for procedural than for declarative memory
  - (E) required use of mnemonics
114. Before taking an exam, Sinead imagines that she will get the worst grade in the class, even though she usually performs very well. Imagining the worst seems to help her deal with the anxiety associated with the exam. What term best describes Sinead's strategy?
- (A) Intrinsic motivation
  - (B) Defensive pessimism
  - (C) Self-handicapping
  - (D) Self-monitoring
  - (E) Self-regulation
115. A patient is administered the Minnesota Multiphasic Personality Inventory-2-RF® (MMPI-2-RF®) by an experienced clinician. The clinician concludes that the patient has schizophrenia. The clinician's diagnosis best supports which of the following additional conclusions?
- (A) The patient's pattern of responses to the MMPI-2-RF® resembles that of people who are known to have schizophrenia.
  - (B) A brief interview with the patient would reveal that the patient harbors delusions of grandeur.
  - (C) The clinician's interpretation of the MMPI-2-RF® findings is based on knowledge of projective testing.
  - (D) The patient received a low score on the lie scale of the MMPI-2-RF®.
  - (E) The patient received a high score on the lie scale of the MMPI-2-RF®.
116. Some students were informed by their teacher that they had scored high on their aptitude tests and had strong potential for academic achievement. Consequently, those students started participating more in class and studying longer hours to achieve high grades. This is an example of what social construct?
- (A) Fundamental attribution error
  - (B) Elaboration likelihood model
  - (C) Cognitive dissonance
  - (D) Norm crystallization
  - (E) Self-fulfilling prophecy
117. Between eight and ten months of age, babies will watch a parent's face in a new situation before responding to the situation themselves. This monitoring of adults' emotional reactions is called
- (A) temperament
  - (B) behavioral inhibition
  - (C) social referencing
  - (D) synchrony
  - (E) emotional display

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118. Which of the following techniques of studying the brain involves the use of x-rays?
- (A) Magnetic resonance imaging (MRI)
  - (B) Computed tomography (CT)
  - (C) Electroencephalography (EEG)
  - (D) Immunohistochemistry
  - (E) Microiontophoresis
119. Damage to the lateral hypothalamus of rats is known to produce deficits in regulation of
- (A) respiration
  - (B) pupillary reflexes
  - (C) sleep
  - (D) eating and drinking
  - (E) oxytocin levels
120. According to a current model, learned helplessness in humans is determined by causal explanations of prior uncontrollable events. These causal explanations are referred to as
- (A) aggregation
  - (B) attributions
  - (C) circular reasoning
  - (D) personal constructs
  - (E) valuations
121. Amyloid plaques and neurofibrillary tangles are most often characteristic of
- (A) substance-induced persisting amnesic disorder
  - (B) Alzheimer's disease
  - (C) Parkinson's disease
  - (D) bipolar disorder
  - (E) schizophrenia
122. Participants in an experiment are asked to look at a display and to find the one straight line among a number of circles. The participants are able to find the line just as quickly among twenty circles as they are among five circles. These results suggest that finding the straight line depends on
- (A) a preattentive process
  - (B) serial processing
  - (C) shape constancy
  - (D) size constancy
  - (E) habituation
123. When asked to name all of the states in the United States, Steven mentally pictures a map and starts naming states from west to east. Steven's strategy is useful during the process of
- (A) retrieval
  - (B) encoding
  - (C) storage
  - (D) flashbulb memory
  - (E) selective attention
124. Albert recently noticed that he has difficulty hearing people at crowded parties even though his hearing seems fine in quiet surroundings. He most likely has damage to his
- (A) pinna
  - (B) eardrum
  - (C) stapes
  - (D) oval window
  - (E) hair cells
125. John recently moved to a large city and experienced an increase in the level of noise. His new home was located adjacent to a railroad track. The rail service was frequent and maintained a consistent schedule. John was awakened frequently each night as trains passed his home. However, after several months he was not awakened and he became less aware of the trains passing by his home. What mechanism accounts for John's adaptation to his environment?
- (A) Orienting response
  - (B) Sensitization
  - (C) Habituation
  - (D) Conditioned response
  - (E) Conditioned stimulus
126. Which of the following tests measures ability, intellect, and knowledge?
- (A) Minnesota Multiphasic Personality Inventory-2-RF® (MMPI-2-RF®)
  - (B) Thematic Apperception Test (TAT)
  - (C) Wechsler Adult Intelligence Scale-Fourth Edition (WAIS®-IV)
  - (D) Myers-Briggs Type Indicator® (MBTI®)
  - (E) Strong Interest Inventory®

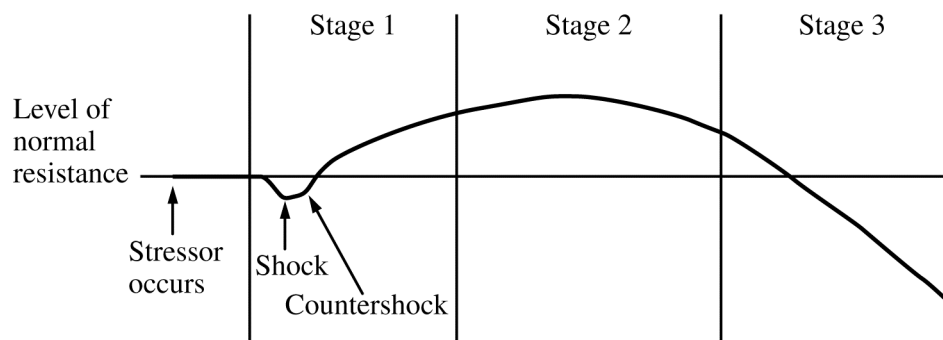
127. Which of the following is a chronic condition that can cause anterograde amnesia in some people?
- (A) Alcoholism
  - (B) Fibromyalgia
  - (C) Muscular dystrophy
  - (D) Panic disorder
  - (E) Bipolar disorder
128. Lo is an advocate of personal construct theory. Which of the following processes does Lo believe are most important in the study of personality?
- (A) Biological
  - (B) Unconscious
  - (C) Cultural
  - (D) Emotional
  - (E) Cognitive
129. According to Albert Bandura's approach to observational learning, which of the following is the best example of vicarious punishment?
- (A) A child stops throwing pencils after watching a teacher scold another child for throwing a pencil across the room.
  - (B) A child watches a teacher say to another child, "You did so well on that homework that you do not need to take the test tomorrow."
  - (C) A child acquires a schema about the difference between socially punished behavior and socially rewarded behavior.
  - (D) A child escapes punishment by cleaning up a mess before anyone notices it.
  - (E) A child is punished on a variable ratio schedule, rather than being punished every time a mistake is made.
130. A psychologist who studies aggression from a social-cognitive theoretical perspective would be most interested in
- (A) differences in aggressive and nonaggressive children's attributions of hostile motives to other people's behavior
  - (B) the adaptive value of the aggression
  - (C) the relation between children's level of aggression and parents' negative reinforcement of children's coercive behaviors
  - (D) the link between testosterone levels and frequencies of aggressive episodes in adolescent males
  - (E) changes over time in the incidence of diagnoses of conduct disorders
131. Cephalocaudal development refers to development that proceeds from
- (A) the trunk outward
  - (B) head to tail
  - (C) bottom to top
  - (D) the perimeter toward the center
  - (E) the general to the specific
132. Which of the following best states the major shortcomings of the place and the frequency-matching (volley) theories of audition?
- (A) Neither theory can be studied empirically.
  - (B) Initial evidence in support of these theories cannot be replicated.
  - (C) Neither theory can account for auditory disorders that are caused by structural defects in the temporal lobe.
  - (D) Place theory applies primarily to loud sounds, whereas frequency-matching theory applies primarily to barely audible sounds.
  - (E) Place theory does not explain the coding of very low frequencies, whereas frequency-matching theory does not explain the coding of very high frequencies.
133. Which of the following represents the correct order of stages in Bibb Latané and John Darley's model of helping?
- I. Interpretation
  - II. Knowing how to help
  - III. Noticing
  - IV. Perception of responsibility
  - V. Deciding to help
- (A) I, III, V, IV, II
  - (B) III, I, IV, II, V
  - (C) III, IV, I, II, V
  - (D) III, IV, II, V, I
  - (E) III, IV, I, V, II
134. What is a limitation of Elisabeth Kübler-Ross's stages of coping with death (denial, anger, bargaining, depression, and acceptance) ?
- (A) The stages are not relevant to terminally ill patients.
  - (B) The stages are based on a study with fewer than twenty individuals.
  - (C) Not all people experience every stage.
  - (D) Few people in Western cultures experience the depression stage.
  - (E) The stages are generally not relevant to younger adults.

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135. According to Carl Jung, there are tendencies that shape human behavior and can be represented by terms such as “the hero” or “the shadow.” Such tendencies are known as
- (A) personas
  - (B) traits
  - (C) schemas
  - (D) archetypes
  - (E) complexes
136. If a student hears a list of words such as night, bed, pillow, blanket, dream, and snore, she is likely to later remember the word sleep even though it was never presented. This can best be explained by
- (A) the activation of schematic knowledge
  - (B) high sensitivity in a signal detection model
  - (C) appropriate use of rote recall
  - (D) a failure of the encoding specificity mechanism
  - (E) too much retroactive interference
137. Which of the following statements about subliminal messages is most accurate?
- (A) Visual messages are more effective than auditory messages in influencing attitude and behavior change.
  - (B) There is evidence they can influence short-term attitude change.
  - (C) They are one of the most common techniques used by advertisers to influence attitude and behavior change.
  - (D) They are more effective than personal testimonial advertising campaigns in influencing attitude and behavior change.
  - (E) They are consciously perceived by participants nearly 100% of the time.
138. Brain imaging techniques have shown that compared to unaffected individuals, individuals diagnosed with schizophrenia have
- (A) enlarged ventricles and a reduction of the prefrontal cortex
  - (B) reduced ventricles and a reduction of the parietal cortex
  - (C) an enlarged parietal cortex and a reduction of the hypothalamus
  - (D) lesions in the parietal lobe and increased cells in the orbital frontal cortex
  - (E) lesions in the temporal lobe and increased cells in the prefrontal cortex
139. According to Edward Tolman, behavior is best understood as
- (A) molar and purposive
  - (B) a collection of S-R connections
  - (C) a series of associated muscle twitches
  - (D) a consequence of trial-and-error learning
  - (E) the expression of underlying psychodynamic conflicts
140. Research by Solomon Asch supports which of the following?
- (A) Conformity increases as group size increases from two people to four or five people.
  - (B) The presence of one dissenter in a group is not strong enough to reduce conformity.
  - (C) Higher levels of conformity are found in individualistic societies than in collectivist societies.
  - (D) A person’s behavior changes when that person plays a role as a prisoner or prison guard in an experiment.
  - (E) Individuals will follow orders to shock innocent strangers.
141. Which of the following is most commonly associated with creative thinking?
- (A) Convergent thinking
  - (B) Divergent thinking
  - (C) Representativeness heuristic
  - (D) Availability heuristic
  - (E) Functional fixedness
142. In which of Erik Erikson’s psychosocial stages of development is the central task to develop and exercise self-control and independence?
- (A) Trust versus mistrust
  - (B) Autonomy versus shame and doubt
  - (C) Initiative versus guilt
  - (D) Industry versus inferiority
  - (E) Generativity versus stagnation
143. A recent article in an educational journal described a university at which the average age is 26. This article also mentioned that 38 percent of the students are over 25 years of age. What can be concluded from this information?
- (A) The median age must be greater than the mean age.
  - (B) The standard deviation must be relatively small.
  - (C) The mode must be either 25 or 26.
  - (D) The distribution must be skewed.
  - (E) The distribution must be bimodal.

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144. Which of the following concepts does the figure above illustrate?

- (A) The general adaptation syndrome
- (B) An intermittent schedule of reinforcement
- (C) A continuous schedule of reinforcement
- (D) The diathesis-stress model
- (E) Signal detection theory

145. When people first sense a new stimulus, only temporary changes in neurons take place, but eventually more permanent changes occur. This is called

- (A) consolidation
- (B) transduction
- (C) a reverberating circuit
- (D) confabulation
- (E) rehearsal

146. If adjacent lights flash on and off in sequence, individuals will often perceive apparent motion even though there is no motion. This experience is referred to as

- (A) linear perspective
- (B) texture gradient
- (C) motion parallax
- (D) the phi phenomenon
- (E) the Ponzo illusion

147. An experimenter predicts that bright colors enhance creativity. She provides brightly colored crayons to the first 15 children who show up for an experiment and muted colored crayons for the remaining 15. She then examines their drawings and judges the brightly colored drawings to be more creative. The study is flawed because it lacks

- (A) a double-blind procedure and an independent variable
- (B) an independent variable and demand characteristics
- (C) demand characteristics and a dependent variable
- (D) a dependent variable and random assignment
- (E) random assignment and a double-blind procedure

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148. Which of the following is an example of a self-conscious emotion?
- (A) Joy
  - (B) Fear
  - (C) Guilt
  - (D) Sadness
  - (E) Disgust
149. A behavioral approach to personality would argue that the root of pathology lies in
- (A) unrealistic beliefs
  - (B) maladaptive learned-response patterns
  - (C) disordered functioning of construct systems
  - (D) fixation and regression
  - (E) incongruence
150. Five randomly selected groups of participants are shown a list of words, one word at a time. Each group of participants is assigned a different task to perform on each word on the list. After completing the list, the participants are given a surprise test for recall of the words. Which of the following assigned tasks is most likely to result in the best recall?
- (A) Counting the number of vowels in each of the words
  - (B) Indicating whether each of the words contains the letter “t”
  - (C) Producing a rhyme for each of the words
  - (D) Saying each of the words three times in rapid succession
  - (E) Producing a synonym for each of the words
151. Participants are asked to look at a picnic scene and to indicate several ways that the people in the scene might deal with a sudden rainstorm. One of the objects in the scene is a picnic basket. However, most of the participants fail to notice that the basket could be used as a protection from the rain. This failure is most likely a manifestation of
- (A) the Purkinje effect
  - (B) the availability heuristic
  - (C) the law of common fate
  - (D) functional fixedness
  - (E) illusory correlation
152. In a lexical decision task, two groups of participants are instructed to make a fast decision on whether each item is or is not an English word. The first group of participants is presented with the word “robin,” followed by the word “bird.” The second group is presented with the word “chair,” followed by the word “bird.” The first group’s responses to “bird” will most likely be
- (A) slower because of Stroop-like interference
  - (B) slower because of lateral inhibition
  - (C) slower because of a sequence effect
  - (D) faster because of semantic priming
  - (E) faster because of response bias
153. The antianxiety effects of benzodiazepines such as diazepam result from their binding with the receptor for which of the following neurotransmitters found in the amygdala?
- (A) Serotonin
  - (B) Acetylcholine
  - (C) Substance P
  - (D) Gamma-aminobutyric acid (GABA)
  - (E) Norepinephrine
154. The fact that Laura still knows how to ride a bicycle even though she has not ridden one in ten years best exemplifies which of the following types of memory?
- (A) Procedural
  - (B) Propositional
  - (C) Semantic
  - (D) Episodic
  - (E) Iconic
155. A persistent, unreasonable, and unwanted thought is known as
- (A) a negative symptom
  - (B) a hallucination
  - (C) a compulsion
  - (D) an obsession
  - (E) a fugue
156. Which of the following distinguishes experts from novices in many fields of endeavor?
- (A) More social connections
  - (B) Speed in recognizing relevant complex patterns
  - (C) Innate talent for performing in the particular field
  - (D) Greater short-term memory capacity
  - (E) Shorter reaction times to simple stimuli

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157. Randy is exceptionally organized. For example, he color codes all his bills and alphabetizes the groceries in his cupboards. According to Freud's theory, Randy is most likely fixated at which stage of psychosexual development?

- (A) Oral
- (B) Anal
- (C) Phallic
- (D) Latent
- (E) Genital

158. Which of the following psychological schools of thought was heavily influenced by pragmatism?

- (A) Structuralism
- (B) Functionalism
- (C) Gestalt
- (D) Evolutionary
- (E) Humanistic

		Joanne	
		Cooperate	Compete
Malik	Cooperate	5 / 5	-10 / 10
	Compete	10 / -10	0 / 0

Outcomes for Joanne are represented in white.  
Outcomes for Malik are represented in gray.

159. Consider the diagram above in which the outcomes for two people (Joanne and Malik) are represented as a series of numbers, depending on their own behavior and the behavior of the other person. A scientist uses these outcomes to predict the likely behavior of each of the individuals. The scientist is most likely studying which of the following?

- (A) Self-perception
- (B) Cognitive heuristics
- (C) The self-fulfilling prophecy
- (D) Attribution theory
- (E) Social exchange

160. Who is reported to be the first researcher to utilize a twin studies methodology in attempting to resolve the nature-nurture controversy?

- (A) Sigmund Freud
- (B) Francis Galton
- (C) Carl Jung
- (D) James Watson
- (E) Wilhelm Wundt

161. Eliciting sympathy in order to create a positive impression is consistent with which of the following self-presentation strategies?

- (A) Modesty
- (B) Intimidation
- (C) Exemplification
- (D) Supplication
- (E) Conformity

162. Which of the following statements describes normative influence?

- (A) The process by which we come to evaluate and know others
- (B) The tendency for impressions of others to be heavily influenced by information gathered early in an interaction
- (C) A set of theories describing how people explain causes of behavior
- (D) Conformity motivated by a fear of social rejection
- (E) Conformity motivated by the belief that others are correct

163. A group of researchers was interested in learning whether a newly developed exam would be useful in determining whether a student will be successful in college. The researchers designed a study in which students took the new exam prior to entering college. At the conclusion of the first year of college, the students took another exam, which was designed to measure how much information they had learned during their first year. The score on this exam was then correlated with the student's score on the newly developed exam. What type of validity was being evaluated in the study?

- (A) Concurrent
- (B) Predictive
- (C) Face
- (D) Discriminant
- (E) Content

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164. Which of the following hormones is responsible for preparing the uterus for the implantation of an ovum that has been fertilized?
- (A) Progesterone
  - (B) Melatonin
  - (C) Oxytocin
  - (D) Vasopressin
  - (E) Aldosterone
165. An adolescent who says, “I won’t become ill from smoking; I never get sick,” is most likely operating under which aspect of egocentrism?
- (A) Personal fable
  - (B) Imaginary audience
  - (C) Deductive reasoning
  - (D) Immanent justice
  - (E) Hypothetical reasoning
166. Alfred Adler developed his theory of individual psychology as a result of his disagreement with which of the following?
- (A) Carl Roger’s belief that human growth is dependent on unconditional positive regard
  - (B) Sigmund Freud’s emphasis on universal biological forces in the personality
  - (C) Albert Bandura’s focus on reciprocal determinism as a key factor in shaping personality
  - (D) Gordon Allport’s belief that personality is made up of individual fundamental traits
  - (E) Abraham Maslow’s emphasis on a hierarchy of needs in creating motivation
167. Which school of psychology rejected the concept of consciousness and defined psychology as an objective natural science?
- (A) Structuralism
  - (B) Functionalism
  - (C) Behaviorism
  - (D) Humanistic psychology
  - (E) Gestalt psychology
168. Which of the following is a memory store that is highly sensitive to masking stimuli presented within 200–300 milliseconds of the presentation of an array of letters?
- (A) Sensory memory
  - (B) Short-term memory
  - (C) Working memory
  - (D) Implicit memory
  - (E) Semantic memory
169. The neural hub of the central executive portion of working memory is thought to be located in the
- (A) prefrontal cortex
  - (B) somatosensory cortex
  - (C) brainstem
  - (D) temporal lobe
  - (E) occipital lobe
170. In an experimental procedure, an animal receives a half second of foot shock, then a half second of no stimulus, and then a tone. In a later presentation of the tone, the animal displays a fear response. This result most likely indicates the occurrence of
- (A) backward conditioning
  - (B) forward conditioning
  - (C) delayed conditioning
  - (D) simultaneous conditioning
  - (E) operant conditioning
171. In what way does delirium differ from dementia?
- (A) Delirium is a permanent state, whereas dementia is a temporary state.
  - (B) Delirium is a temporary state, whereas dementia is a permanent state.
  - (C) Delirium can result from the use of substances, whereas dementia cannot result from the use of substances.
  - (D) Delirium is sometimes associated with Alzheimer’s disease, whereas dementia is never associated with Alzheimer’s disease.
  - (E) Delirium affects younger people, whereas dementia affects older people.
172. The full Moon looks much larger when it is on the horizon than when it is high in the sky. Which of the following is the best explanation for this phenomenon?
- (A) More rods are stimulated by the Moon when it is just above the horizon than when it is high in the sky.
  - (B) Size judgment is based on visual cues between the viewer and the image of the Moon.
  - (C) Brightness constancy cues are disrupted by interfering stimulation.
  - (D) The image of the Moon high in the sky exceeds the difference threshold.
  - (E) Judgment is based on the Gestalt principle of proximity.

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173. When newborn baby Yasmin's cheek is stroked, she turns her head in the direction of the stimulus. Which reflex is Yasmin demonstrating?
- (A) Moro
  - (B) Babinski
  - (C) Palmar
  - (D) Tonic neck
  - (E) Rooting
174. Which of the following philosophers insisted that the mind at birth is like a blank slate devoid of character or ideas?
- (A) François-Marie Arouet de Voltaire
  - (B) James Mill
  - (C) John Stuart Mill
  - (D) David Hume
  - (E) John Locke
175. On his first date with Sue, Bill walks into a party, trips coming through the doorway, and falls flat on the floor. Bill thinks that the floor must have been uneven, thus making him trip, while Sue thinks Bill is probably clumsy. Their different attributions represent
- (A) the discounting principle
  - (B) the actor-observer bias
  - (C) self-handicapping
  - (D) the foot-in-the-door technique
  - (E) the covariation principle
176. The overjustification effect states which of the following?
- (A) Positive reinforcement is consistently more effective than negative reinforcement.
  - (B) Extrinsic rewards can diminish children's intrinsic motivation to learn.
  - (C) Extrinsic rewards are best when used with intrinsically motivated students.
  - (D) Academic grades increase students' intrinsic motivation to learn.
  - (E) Behavior modification improves internal motivation in large classrooms.
177. The belief that differences among spoken languages cause differences in the thinking and problem-solving styles of speakers is called
- (A) taxonomic bias
  - (B) whole-object bias
  - (C) the tip-of-the-tongue phenomenon
  - (D) the typicality effect
  - (E) the Sapir-Whorf hypothesis
178. Volunteers are trying to get people to donate money to a charity. Which of the following is an example of the foot-in-the-door principle?
- (A) Ask people to donate ten dollars. If they refuse, ask if they would consider donating one dollar.
  - (B) Ask people to donate only one dollar. If they accept, ask them to donate ten dollars.
  - (C) Ask people to donate ten dollars. If they refuse, immediately ask them again.
  - (D) Ask people to donate ten dollars during a popular sporting event when arousal is high.
  - (E) Ask people to donate ten dollars when they are relaxing at home.
179. Which of the following is the correct sequence of stages of prenatal development?
- (A) Embryo, gestation, neonate
  - (B) Gestation, embryo, fertilized ovum
  - (C) Embryo, fertilized ovum, fetus
  - (D) Fertilized ovum, embryo, fetus
  - (E) Fetus, embryo, fertilized ovum
180. Participants in a social psychological experiment observe through a one-way glass as two students take an oral quiz. The situation is arranged such that both Arthur and Sheri get 15 of the 25 questions correct, but Arthur gets each of the first 5 questions correct, while Sheri gets none of the first 5 correct. Most participant observers would likely conclude that
- (A) Arthur is a better student than Sheri
  - (B) Sheri is a better student than Arthur
  - (C) Arthur and Sheri are approximately equally able students
  - (D) the experiment does not provide any information about the ability of Arthur or Sheri
  - (E) Arthur and Sheri are confederates in the experiment
181. Which of the following is a characteristic of the authoritarian personality?
- (A) Liberal religious attitude
  - (B) Hostility toward outgroups
  - (C) Challenge of rules
  - (D) A high need for cognition
  - (E) A firm but warm parental style

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182. The confirmation bias leads people to draw incorrect conclusions because they
- (A) use algorithms when they should use heuristics
  - (B) use deductive reasoning when they should use inductive reasoning
  - (C) do not seek evidence that would disprove their hypotheses
  - (D) do not consider alternative uses for a well-known object
  - (E) mistakenly attribute the causes of other people's behavior to internal factors
183. Dr. Wang is a theorist who is interested in how a given behavior increases an organism's chance of reproductive success and perpetuates the species. Dr. Wang is most likely
- (A) an evolutionary psychologist
  - (B) a neuropsychologist
  - (C) a cognitive theorist
  - (D) a sociologist
  - (E) a learning theorist
184. In his study of schizophrenia, Dr. Perez collects data on the number of new cases of this diagnosis in the United States in the past year. This statistic is known as the
- (A) prevalence
  - (B) incidence
  - (C) base rate
  - (D) correlation
  - (E) sample
185. A security screener in an airport checks by hand everything that seems suspicious. It is critical that she never let any potentially dangerous item through her security checkpoint. In terms of signal detection theory, this screener is likely to make
- (A) a large number of misses and a small number of hits
  - (B) a large number of hits and a large number of false alarms
  - (C) a large number of misses and a large number of false alarms
  - (D) a small number of hits and a small number of false alarms
  - (E) a large number of correct rejections and a large number of false alarms
186. The Premack principle states that
- (A) a more frequent behavior will reinforce a less frequent behavior
  - (B) intrinsic motivation is reduced when it is overused
  - (C) there is a contingent relationship between stimulus and response
  - (D) reinforcement is illusory when it is noncontingent
  - (E) reinforcement increases expectation and motivation
187. Elizabeth Loftus and her colleagues ask students to talk about various events that have occurred in their lives, including one that never occurred. If the students have trouble remembering, the researchers provide cues. They record whether the students remember the events that never occurred and how confident the students are in these false memories. Which of the following best describes the findings?
- (A) About 25% of the students remember the false event, and many are quite confident in it.
  - (B) Students almost never remember false events, although they remember about 80% of the real events.
  - (C) About 80% of the students remember the false event, but their confidence is uniformly low.
  - (D) Students almost never remember false events, and their memory for the actual events is also quite low.
  - (E) False memories can be implanted in about 40% of the students, but these memories are forgotten within about a week.
188. Melvin has a set of Von Frey hairs of different diameters. He starts by pressing a thin hair against a participant's toe and continues with increasingly thicker hairs until the participant feels pressure. Melvin then starts with a thick hair and uses increasingly thinner hairs until the participant does not feel pressure. Melvin is using the method of
- (A) limits
  - (B) adjustment
  - (C) constant stimuli
  - (D) magnitude estimation
  - (E) loci

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189. Long-term potentiation is widely assumed to be the physiological mechanism of
- (A) attention
  - (B) learning
  - (C) epilepsy
  - (D) emotion
  - (E) sexuality
190. A psychologist wishes to compare the performances of an experimental group and a control group on a continuous measure. Which of the following would be the most typical way to make this comparison?
- (A) Computing a single correlation coefficient
  - (B) Computing a multiple correlation
  - (C) Showing that both groups are normally distributed on the dependent variable
  - (D) Conducting a chi-square test
  - (E) Conducting a *t* test on the two means
191. We process information relevant to the self more efficiently than we process other types of information. This phenomenon is called the
- (A) perseverance effect
  - (B) self-reference effect
  - (C) slime effect
  - (D) halo effect
  - (E) mood-congruence effect
192. Every time he hears the name of his favorite restaurant, Jacob begins to salivate. In Pavlovian terms, the restaurant's name is serving as
- (A) a conditioned stimulus
  - (B) a conditioned response
  - (C) an unconditioned stimulus
  - (D) an unconditioned response
  - (E) a neutral stimulus
193. Which of the following is a type of glial cell that is responsible for producing the myelin sheaths that cover axons?
- (A) Oligodendrocyte
  - (B) Astrocyte
  - (C) Microglia
  - (D) Monocyte
  - (E) Endothelial cell
194. Roberta lives on the first floor of her dorm. She notices that she has made more friends with others who live on her floor than with others on other floors. This is an example of
- (A) self-reference
  - (B) perseverance
  - (C) propinquity
  - (D) overjustification
  - (E) bystander
195. Some researchers believe that people acquire a second language better if they learn it prior to adolescence, whereas other researchers believe that people can easily learn most aspects of a second language, even if they are beyond adolescence. However, based on the most frequently observed limitation in second language use, both groups would expect to observe less than native-like competence after adolescence in which of the following?
- (A) Syntax
  - (B) Pronunciation
  - (C) Fluency of speech production
  - (D) Discourse comprehension
  - (E) Semantics
196. The legal requirement that professionals notify appropriate authorities about suspected child abuse is known as
- (A) mandatory reporting
  - (B) duty to warn
  - (C) duty to protect
  - (D) *parens patriae*
  - (E) privileged communication

GO ON TO THE NEXT PAGE.

**Questions 197-199 refer to the following information.**

In a study of a new psychopharmacological treatment for clinical depression, 40 participants diagnosed with depression each received four different amounts of a new medication called Deplow. The first week, they were given a placebo. During the second week of the study, they took 1 mg of Deplow each day. During the third week, they took 3 mg of Deplow each day, and during the fourth week, they took 5 mg of Deplow each day. Although the participants took different amounts of the medication each week, they were not informed about the amount they were taking. The participants also completed a depression symptom checklist at the end of each week. Results are presented below. The score on the checklist could range from 0 to 30, with 0 indicating no depression and 30 indicating severe depression. Assume statistical significance for differences greater than 3.0.

Week of Study	Treatment	Mean Depression Score
1	Placebo	22.5
2	1 mg	23.2
3	3 mg	19.9
4	5 mg	14.5

197. Which of the following effects is the most serious limitation of this study?
- (A) Selection
  - (B) Ceiling
  - (C) Sleeper
  - (D) Cohort
  - (E) Carryover
198. What type of design was used in this study?
- (A) Single factor between subjects
  - (B) Single factor within subjects
  - (C) Multifactor between subjects
  - (D) Multifactor within subjects
  - (E) Cross-sectional
199. Which of the following would make it difficult to conclude that any decrease in depressive symptoms is due to Deplow and not to other aspects of the study?
- (A) The increasing doses of Deplow
  - (B) The lack of a control group
  - (C) The low sample size
  - (D) The lack of comparison with an established antipsychotic medication
  - (E) The lack of comparison with participants diagnosed with mania

200. Conducting a study by analyzing United States census data from previous years is an example of using which of the following research approaches?
- (A) Experimentation
  - (B) Case history
  - (C) Naturalistic observation
  - (D) Surveys
  - (E) Archival analysis
201. Dr. Chen is interested in feminist attitudes of young adult women in the United States. Consequently, she administered a feminist attitude questionnaire to a total of 100 young adult women from three universities. The 100 women tested and the number of young adult women in the United States are which of the following, respectively?
- (A) Effect size and population
  - (B) Meta-analysis and effect size
  - (C) Sample and population
  - (D) Random assignment and random selection
  - (E) Independent variable and dependent variable
202. Which of the following are the two individuals credited with the founding of psychology, as indicated by the formation of psychology laboratories in the 1870s?
- (A) Mary Calkins and Wilhelm Wundt
  - (B) Ernst Weber and Gustav Fechner
  - (C) Gustav Fechner and E. B. Titchener
  - (D) Wilhelm Wundt and William James
  - (E) William James and Sigmund Freud
203. Which of the following best describes the role of arousal in the proposed diagram depicting causal relationships among viewing violent television, arousal, and aggressive behavior?
- Violent Television → Arousal → Aggressive Behavior
- (A) Predictor variable
  - (B) Mediating variable
  - (C) Spurious variable
  - (D) Extraneous variable
  - (E) Alpha variable
204. An action that a person does for no external reward that intentionally benefits another person is an example of which of the following concepts?
- (A) Pure altruism
  - (B) Social facilitation
  - (C) Genuineness
  - (D) Empathic concern
  - (E) Reactance
205. Which of the following best supports the all-or-none principle of neural impulses?
- (A) A neuron will fire a complete action potential once the threshold is reached.
  - (B) During the absolute refractory period, a neuron cannot fire again.
  - (C) An impulse loses strength the further it travels along an axon.
  - (D) Drugs affect neurons by causing them to release all stored neurotransmitters.
  - (E) A neuron is at its resting potential when only positive ions are inside its membrane.

## S T O P

**If you finish before time is called, you may check your work on this test.**

**NO TEST MATERIAL ON THIS PAGE**

*Diagnostic and Statistical Manual of Mental Disorders, Fifth Edition (DSM-5<sup>TM</sup>), Minnesota Multiphasic Personality Inventory-2-RF<sup>®</sup> (MMPI-2-RF<sup>®</sup>), Myers-Briggs Type Indicator<sup>®</sup> (MBTI<sup>®</sup>), Strong Interest Inventory<sup>®</sup>, Wechsler Adult Intelligence Scale—Fourth Edition (WAIS<sup>®</sup>—IV), Prozac<sup>®</sup>, and Zoloft<sup>®</sup> were used in these testing materials. Such trademarks are owned by the respective trademark holders, none of which are affiliated with ETS, nor do these owners endorse or otherwise sponsor or approve these materials.*

NOTE: To ensure prompt processing of test results, it is important that you fill in the blanks exactly as directed.

## SUBJECT TEST

A. Print and sign  
your full name  
in this box:

PRINT: \_\_\_\_\_  
 (LAST) (FIRST) (MIDDLE)

SIGN: \_\_\_\_\_

Copy this code in box 6 on your answer sheet. Then fill in the corresponding ovals exactly as shown.

6. TITLE CODE				
8	1	3	6	1
0	0	0	0	0
1		1	1	
2	2	2	2	2
3	3		3	3
4	4	4	4	4
5	5	5	5	5
6	6	6		6
7	7	7	7	7
	8	8	8	8
9	9	9	9	9

Copy the Test Name and Form Code in box 7 on your answer sheet.

TEST NAME Psychology

FORM CODE GR1481

## GRADUATE RECORD EXAMINATIONS SUBJECT TEST

- B. The Subject Tests are intended to measure your achievement in a specialized field of study. Most of the questions are concerned with subject matter that is probably familiar to you, but some of the questions may refer to areas that you have not studied.

Your score will be determined by subtracting one-fourth the number of incorrect answers from the number of correct answers. Questions for which you mark no answer or more than one answer are not counted in scoring. If you have some knowledge of a question and are able to rule out one or more of the answer choices as incorrect, your chances of selecting the correct answer are improved, and answering such questions will likely improve your score. It is unlikely that pure guessing will raise your score; it may lower your score.

You are advised to use your time effectively and to work as rapidly as you can without losing accuracy. Do not spend too much time on questions that are too difficult for you. Go on to the other questions and come back to the difficult ones later if you can.

YOU MUST INDICATE ALL YOUR ANSWERS ON THE SEPARATE ANSWER SHEET. No credit will be given for anything written in this examination book, but you may write in the book as much as you wish to work out your answers. After you have decided on your response to a question, fill in the corresponding oval on the answer sheet. **BE SURE THAT EACH MARK IS DARK AND COMPLETELY FILLS THE OVAL.** Mark only one answer to each question. No credit will be given for multiple answers. Erase all stray marks. If you change an answer, be sure that all previous marks are erased completely. Incomplete erasures may be read as intended answers. Do not be concerned that the answer sheet provides spaces for more answers than there are questions in the test.

Example:

What city is the capital of France?

- (A) Rome  
(B) Paris  
(C) London  
(D) Cairo  
(E) Oslo

### Sample Answer

Ⓐ ● Ⓒ Ⓓ Ⓔ

☐ A ☒ B ☐ C ☐ D ☐ E

☐ A ☒ B ☐ C ☐ D ☐ E

(A)  (C) (D) (E)

A F C D E

CORRECT ANSWER  
PROPERLY MARKED

## IMPROPER MARKS

**DO NOT OPEN YOUR TEST BOOK UNTIL YOU ARE TOLD TO DO SO.**



**Educational  
Testing Service**

Educational Testing Service  
Princeton, New Jersey 08541

**Worksheet for the Psychology Test, Form GR1481**  
**Answer Key and Percentage\* of Examinees Answering Each Question Correctly**

QUESTION		P+	RESPONSE		SUBSCORE	
Number	Answer		C	I	1	2
1	C	71			•	
2	E	82				
3	D	67			•	
4	D	49				•
5	B	36			•	
6	A	72				•
7	C	79			•	
8	D	61			•	
9	A	89			•	
10	E	40			•	
11	E	44				•
12	C	27				
13	A	100				
14	E	95				
15	B	83				
16	B	74				•
17	A	71			•	
18	C	50				•
19	C	22			•	
20	D	90				•
21	D	39				•
22	B	33				
23	B	73				•
24	D	90				•
25	D	64				•
26	C	46				•
27	E	26			•	
28	B	84				
29	C	69				•
30	A	27				•
31	B	64				
32	C	73			•	
33	D	89				
34	C	95			•	
35	A	91				•
36	C	55				
37	B	97				•
38	D	46				•
39	C	87				•
40	C	33			•	
41	A	81				
42	C	56				
43	D	67				
44	B	36			•	
45	A	56				
46	B	97			•	
47	B	87			•	
48	C	84			•	
49	D	61			•	
50	D	73			•	
51	D	68				•
52	A	70				•
53	C	74				•
54	B	68				•
55	D	76				•
56	C	83			•	
57	E	69				•
58	B	73				•
59	D	96				•
60	B	28			•	
61	A	89			•	
62	B	46			•	
63	E	46			•	
64	A	84				•
65	D	24			•	
66	C	19				
67	E	89				•
68	D	56				•
69	E	89				•
70	A	97			•	

QUESTION		P+	RESPONSE		SUBSCORE	
Number	Answer		C	I	1	2
71	C	72				•
72	A	84				•
73	C	54				•
74	C	81				•
75	C	58			•	
76	A	58				•
77	C	51			•	
78	D	82			•	
79	B	80			•	
80	C	92				•
81	D	39			•	
82	C	88			•	
83	D	90				•
84	D	10			•	
85	A	84				•
86	B	72			•	
87	C	79			•	
88	E	6				•
89	D	96			•	
90	A	53			•	
91	D	81				•
92	E	31				
93	A	94				•
94	B	94				•
95	D	80				•
96	E	93				•
97	A	86				•
98	E	34			•	
99	C	85				•
100	B	64			•	
101	C	88				
102	A	52				
103	A	59				
104	D	47				•
105	B	87				•
106	C	54			•	
107	D	61			•	
108	C	86				•
109	B	77				•
110	A	40			•	
111	A	34				•
112	E	80				•
113	C	81			•	
114	B	57				•
115	A	75				
116	E	88				•
117	C	91				•
118	B	48			•	
119	D	61			•	
120	B	57				•
121	B	60				•
122	A	13			•	
123	A	91			•	
124	E	20				•
125	C	86			•	
126	C	90				
127	A	70				•
128	E	52				•
129	A	91			•	
130	A	74				•
131	B	45				•
132	E	24			•	
133	B	70				•
134	C	87				•
135	D	75				•
136	A	92			•	
137	B	33				•
138	A	60			•	
139	A	14				
140	A	73				•

QUESTION		P+	RESPONSE		SUBSCORE	
Number	Answer		C	I	1	2
141	B	86			•	
142	B	71				•
143	D	62				
144	A	40				•
145	A	49			•	
146	D	39			•	
147	E	70				
148	C	86				•
149	B	91			•	
150	E	40			•	
151	D	84			•	
152	D	86			•	
153	D	54			•	
154	A	91			•	
155	D	77				•
156	B	69			•	
157	B	76				•
158	B	36				•
159	E	73				•
160	B	49				
161	D	47				•
162	D	25				•
163	B	71				
164	A	81			•	
165	A	56				•
166	B	52				
167	C	64				
168	A	53			•	
169	A	62			•	
170	A	51			•	
171	B	79				•
172	B	70			•	
173	E	67				•
174	E	81				
175	B	91				•
176	B	71			•	
177	E	69			•	
178	B	86				•
179	D	88				•
180	A	78				•
181	B	61				•
182	C	81			•	
183	A	96			•	
184	B	60				•
185	B	47			•	
186	A	28			•	
187	A	55			•	
188	A	28			•	
189	B	54			•	
190	E	56				
191	B	87				•
192	A	87			•	
193	A	44			•	
194	C	70				•
195	B	27			•	
196	A	60				•
197	E	52				
198	B	44				
199	B	82				
200	E	84				
201	C	95				
202	D	73				
203	B	62				
204	A	92				•
205	A	86			•	

Total Correct (C): \_\_\_\_\_ Sub 1 Correct (C): \_\_\_\_\_ Sub 2 Correct (C): \_\_\_\_\_  
Total Incorrect (I): \_\_\_\_\_ Sub 1 Incorrect (I): \_\_\_\_\_ Sub 2 Incorrect (I): \_\_\_\_\_  
Total Score (C-I/4): \_\_\_\_\_ Sub 1 Score (C-I/4): \_\_\_\_\_ Sub 2 Score (C-I/4): \_\_\_\_\_  
Scaled Score (SS): \_\_\_\_\_ Scaled Score (SS): \_\_\_\_\_ Scaled Score (SS): \_\_\_\_\_

\* The numbers in the P+ column are indicative of the percentages of U.S. GRE Psychology examinees who would answer each question correctly.



## Score Conversions for the Psychology Test, Form GR1481

TOTAL SCORE			
Raw Score	Scaled Score	Raw Score	Scaled Score
204-205	870	101-103	540
201-203	860	98-100	530
197-200	850	95-97	520
		92-94	510
194-196	840	89-91	500
191-193	830		
188-190	820	86-88	490
185-187	810	83-85	480
182-184	800	79-82	470
		76-78	460
179-181	790	73-75	450
176-178	780		
173-175	770	70-72	440
169-172	760	67-69	430
166-168	750	64-66	420
		61-63	410
163-165	740	58-60	400
160-162	730		
157-159	720	55-57	390
154-156	710	52-54	380
151-153	700	48-51	370
		45-47	360
148-150	690	42-44	350
145-147	680		
142-144	670	39-41	340
138-141	660	36-38	330
135-137	650	33-35	320
		30-32	310
132-134	640	27-29	300
129-131	630		
126-128	620	24-26	290
123-125	610	20-23	280
120-122	600	17-19	270
		14-16	260
117-119	590	11-13	250
114-116	580		
111-113	570	8-10	240
107-110	560	5-7	230
104-106	550	2-4	220
		0-1	210

SUBSCORES					
Raw Scores		Scaled Score	Raw Scores		Scaled Score
Sub 1	Sub 2		Sub 1	Sub 2	
			36-37	47	54
81		88	35	46	53
80		87	34	44-45	52
79		86	32-33	43	51
77-78		85	31	42	50
76		84	30	41	49
75	85-86	83	28-29	39-40	48
73-74	84	82	27	38	47
72	83	81	26	37	46
71	81-82	80	24-25	35-36	45
69-70	80	79	23	34	44
68	79	78	22	33	43
67	77-78	77	20-21	31-32	42
65-66	76	76	19	30	41
64	75	75	18	29	40
63	73-74	74	16-17	27-28	39
61-62	72	73	15	26	38
60	71	72	14	25	37
59	70	71	12-13	23-24	36
57-58	68-69	70	11	22	35
56	67	69	10	21	34
55	66	68	8-9	19-20	33
53-54	64-65	67	7	18	32
52	63	66	6	17	31
51	62	65	4-5	15-16	30
49-50	60-61	64	3	14	29
48	59	63	2	13	28
47	58	62	0-1	11-12	27
45-46	56-57	61		10	26
44	55	60		9	25
43	54	59		8	24
41-42	52-53	58		6-7	23
40	51	57		5	22
39	50	56		4	21
38	48-49	55		0-3	20

**GRADUATE RECORD EXAMINATIONS® -** 

Item responses continued on reverse side.

<b>3. DATE OF BIRTH</b>		
Month	Day	Year
Jan.		
Feb.		
Mar.		
Aprill		
May		
June		
July		
Aug.		
Sept.		
Oct.		
Nov.		
Dec.		

<b>4. SOCIAL SECURITY NUMBER (U.S.A. only)</b>	
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

<b>5. REGISTRATION NUMBER (from your admission ticket)</b>	
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

<b>6. TITLE CODE (on back cover of your test book)</b>	
0	0
1	1
2	2
3	3
4	4
5	5
6	6
7	7
8	8
9	9

<b>7. TEST NAME (on back cover of your test book)</b>	

<b>FORM CODE (on back cover of your test book)</b>	

<b>8. TEST BOOK SERIAL NUMBER (number in upper right corner of front cover of your test book)</b>	

<b>SHADED AREA FOR ETS USE ONLY</b>	

SIDE 2

SUBJECT TEST

COMPLETE THE  
CERTIFICATION STATEMENT,  
THEN TURN ANSWER SHEET  
OVER TO SIDE 1.

CERTIFICATION STATEMENT

Please write the following statement below, DO NOT PRINT.

"I certify that I am the person whose name appears on this answer sheet. I also agree not to disclose the contents of the test I am taking today to anyone."

Sign and date where indicated.

SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_  
Month Day Year

BE SURE EACH MARK IS DARK AND COMPLETELY FILLS THE INTENDED SPACE AS ILLUSTRATED HERE: ●. YOU MAY FIND MORE RESPONSE SPACES THAN YOU NEED. IF SO, PLEASE LEAVE THEM BLANK.

115	(A) (B) (C) (D) (E)	147	(A) (B) (C) (D) (E)	179	(A) (B) (C) (D) (E)	211	(A) (B) (C) (D) (E)
116	(A) (B) (C) (D) (E)	148	(A) (B) (C) (D) (E)	180	(A) (B) (C) (D) (E)	212	(A) (B) (C) (D) (E)
117	(A) (B) (C) (D) (E)	149	(A) (B) (C) (D) (E)	181	(A) (B) (C) (D) (E)	213	(A) (B) (C) (D) (E)
118	(A) (B) (C) (D) (E)	150	(A) (B) (C) (D) (E)	182	(A) (B) (C) (D) (E)	214	(A) (B) (C) (D) (E)
119	(A) (B) (C) (D) (E)	151	(A) (B) (C) (D) (E)	183	(A) (B) (C) (D) (E)	215	(A) (B) (C) (D) (E)
120	(A) (B) (C) (D) (E)	152	(A) (B) (C) (D) (E)	184	(A) (B) (C) (D) (E)	216	(A) (B) (C) (D) (E)
121	(A) (B) (C) (D) (E)	153	(A) (B) (C) (D) (E)	185	(A) (B) (C) (D) (E)	217	(A) (B) (C) (D) (E)
122	(A) (B) (C) (D) (E)	154	(A) (B) (C) (D) (E)	186	(A) (B) (C) (D) (E)	218	(A) (B) (C) (D) (E)
123	(A) (B) (C) (D) (E)	155	(A) (B) (C) (D) (E)	187	(A) (B) (C) (D) (E)	219	(A) (B) (C) (D) (E)
124	(A) (B) (C) (D) (E)	156	(A) (B) (C) (D) (E)	188	(A) (B) (C) (D) (E)	220	(A) (B) (C) (D) (E)
125	(A) (B) (C) (D) (E)	157	(A) (B) (C) (D) (E)	189	(A) (B) (C) (D) (E)	221	(A) (B) (C) (D) (E)
126	(A) (B) (C) (D) (E)	158	(A) (B) (C) (D) (E)	190	(A) (B) (C) (D) (E)	222	(A) (B) (C) (D) (E)
127	(A) (B) (C) (D) (E)	159	(A) (B) (C) (D) (E)	191	(A) (B) (C) (D) (E)	223	(A) (B) (C) (D) (E)
128	(A) (B) (C) (D) (E)	160	(A) (B) (C) (D) (E)	192	(A) (B) (C) (D) (E)	224	(A) (B) (C) (D) (E)
129	(A) (B) (C) (D) (E)	161	(A) (B) (C) (D) (E)	193	(A) (B) (C) (D) (E)	225	(A) (B) (C) (D) (E)
130	(A) (B) (C) (D) (E)	162	(A) (B) (C) (D) (E)	194	(A) (B) (C) (D) (E)	226	(A) (B) (C) (D) (E)
131	(A) (B) (C) (D) (E)	163	(A) (B) (C) (D) (E)	195	(A) (B) (C) (D) (E)	227	(A) (B) (C) (D) (E)
132	(A) (B) (C) (D) (E)	164	(A) (B) (C) (D) (E)	196	(A) (B) (C) (D) (E)	228	(A) (B) (C) (D) (E)
133	(A) (B) (C) (D) (E)	165	(A) (B) (C) (D) (E)	197	(A) (B) (C) (D) (E)	229	(A) (B) (C) (D) (E)
134	(A) (B) (C) (D) (E)	166	(A) (B) (C) (D) (E)	198	(A) (B) (C) (D) (E)	230	(A) (B) (C) (D) (E)
135	(A) (B) (C) (D) (E)	167	(A) (B) (C) (D) (E)	199	(A) (B) (C) (D) (E)	231	(A) (B) (C) (D) (E)
136	(A) (B) (C) (D) (E)	168	(A) (B) (C) (D) (E)	200	(A) (B) (C) (D) (E)	232	(A) (B) (C) (D) (E)
137	(A) (B) (C) (D) (E)	169	(A) (B) (C) (D) (E)	201	(A) (B) (C) (D) (E)	233	(A) (B) (C) (D) (E)
138	(A) (B) (C) (D) (E)	170	(A) (B) (C) (D) (E)	202	(A) (B) (C) (D) (E)	234	(A) (B) (C) (D) (E)
139	(A) (B) (C) (D) (E)	171	(A) (B) (C) (D) (E)	203	(A) (B) (C) (D) (E)	235	(A) (B) (C) (D) (E)
140	(A) (B) (C) (D) (E)	172	(A) (B) (C) (D) (E)	204	(A) (B) (C) (D) (E)	236	(A) (B) (C) (D) (E)
141	(A) (B) (C) (D) (E)	173	(A) (B) (C) (D) (E)	205	(A) (B) (C) (D) (E)	237	(A) (B) (C) (D) (E)
142	(A) (B) (C) (D) (E)	174	(A) (B) (C) (D) (E)	206	(A) (B) (C) (D) (E)	238	(A) (B) (C) (D) (E)
143	(A) (B) (C) (D) (E)	175	(A) (B) (C) (D) (E)	207	(A) (B) (C) (D) (E)	239	(A) (B) (C) (D) (E)
144	(A) (B) (C) (D) (E)	176	(A) (B) (C) (D) (E)	208	(A) (B) (C) (D) (E)	240	(A) (B) (C) (D) (E)
145	(A) (B) (C) (D) (E)	177	(A) (B) (C) (D) (E)	209	(A) (B) (C) (D) (E)	241	(A) (B) (C) (D) (E)
146	(A) (B) (C) (D) (E)	178	(A) (B) (C) (D) (E)	210	(A) (B) (C) (D) (E)	242	(A) (B) (C) (D) (E)

TR	TW	TFS	TCS	1R	1W	1FS	1CS	2R	2W	2FS	2CS
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				5R	5W	5FS	5CS	6R	6W	6FS	6CS

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