

考試科目	普通心理學	系別	心理系	考試時間	7 月 9 日 星期五 第 2 節
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選擇題請在答案卡上作答，否則不予計分。

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

- 1) Researchers typically stress that a key aspect of intelligence is _____.
 - A) the ability to speak different languages
 - B) the Y chromosome
 - C) that it is completely determined by the environment
 - D) the ability to adapt to the environment
 - E) It is only accurate for males
- 2) If intelligence is a concept and not a concrete object, then _____.
 - A) it has no relation to the real world
 - B) it is directly quantifiable
 - C) it can not be studied
 - D) it can not be directly measured
 - E) it can not be studies scientifically
- 3) One advantage of Carroll's model of intelligence is that _____.
 - A) It is the oldest theory
 - B) It is not supported by data
 - C) It completely explains all of intelligence
 - D) It has only two parts
 - E) It is a grand synthesis of earlier theories
- 4) Twins raised apart actually do share an aspect of their environment called the _____.
 - A) parental environment
 - B) pre-environment
 - C) microenvironment
 - D) prenatal environment
 - E) post-environment
- 5) How does the g factor relate to abilities in the real world?
 - A) This has not been investigated
 - B) The g factor only predicts school performance
 - C) It is not related to any abilities in the real world
 - D) It is less predictive of ability than the s factor
 - E) Performance in a wide range of occupations is predicted by g

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<p>6) A particular type of brain cell has been identified as helping the brain work more efficiently (for example in Einstein's brain). These cells are called _____.</p> <p>A) Einstein cells B) sensory neurons C) double neurons D) glial cells E) neuromodulators</p> <p>7) The definitive reason for why the Flynn effect occurs is _____.</p> <p>A) the kind of reasoning useful in taking tests has improved B) not known at present C) better nutrition D) the more challenging aspect of everyday life E) more genetically superior individuals through natural selection</p> <p>8) Which of the following statements is true?</p> <p>A) Display rules are genetically received. B) Emotions are generally unaffected by culture. C) Positive and negative emotions are opposite sides of the same coin. D) An emotion can have different types and different facial expressions. E) Environmental stimuli have little effect on how emotions develop.</p> <p>9) Erica saw her old boyfriend and her heart began to race. According to cognitive theory, is she happy to see him or frightened of him?</p> <p>A) She must be frightened because her heart began to race before she reacted emotionally. B) You cannot tell because she is not displaying a basic emotion. C) It depends on how she interprets the situation. D) You cannot tell until her reaction produces a core affect. E) She is frightened because her emotional reaction came before her heart began to race.</p> <p>10) Devon heard a noise and went to investigate. He was afraid that someone was breaking into his house. When his cat jumped out from the shadows, Devon yelled. But Devon's cat is always showing up suddenly and it usually doesn't bother him. What concept from your text best explains Devon's increased tendency to be startled?</p> <p>A) amygdala reactive response B) fear-potentiated startle C) reactive arousal startle D) misattribution of arousal E) facial feedback hypothesis</p>						
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<p>11) Clayton thought his best friend's girlfriend looked beautiful in her bikini. Needless to say, he tried very hard to hide his feelings. Which structure(s) of the brain became activated when Clayton tried to inhibit his emotional reaction?</p> <p>A) parts of the frontal lobe B) the amygdala C) the frontal lobe and the amygdala D) the hypothalamus and the amygdala E) the hypothalamus</p> <p>12) The chief function of homeostasis is to _____. A) control sexual urges B) offset unhealthy eating habits C) prevent balance D) maintain a steady state E) regulate emotions</p> <p>13) Manuel had a personality conflict with his math teacher. No matter how hard he tried to get along, the teacher seemed to single him out. Eventually Manuel just quit trying to get along. He knew it would never help and he just didn't see the point anymore. Manuel's feelings are best described as an example of _____. A) classical conditioning B) an exaggerated focus C) aversion conditioning D) learned helplessness E) the carrot and the stick</p> <p>14) Which of the following is a criticism of Maslow's theory? A) Research suggests that cognitive needs trump aesthetics. B) Evidence suggests that met needs become less important. C) There is no evidence that unmet needs become more important. D) The theory does not suggest a regulatory fit. E) Research does not support the idea that people want to self-actualize.</p> <p>15) Darla's father went to prison when she was four years old, following numerous domestic violence incidents with Darla's mother. Although Darla does not remember the violence, she is fearful of men and avoids intimate relationships. Freud would suggest that the problem lies with Darla's _____. A) superego B) unconscious mind C) id D) preconscious mind E) private anxiety</p>					
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<p>16) Donita is angry with her boss so she left work a little early in order to run an extra mile before it gets dark. Which defense mechanism is Donita employing?</p> <p>A) reaction formation B) projection C) repression D) rationalization E) sublimation</p> <p>17) Jerod has saved plenty of money and has a lucrative business that he enjoys. He likes to volunteer his time in the community and enjoys the company of others -- but still saves time to be alone. One of his favorite things to do in the evening is sit outside and watch the sunset. Maslow might suggest that Jerod is _____.</p> <p>A) experiencing a superiority complex B) self-actualizing C) seeking novel stimulation D) emotionally conditioned E) retired</p> <p>18) According to your text, if we define a trait narrowly, it better predicts behavior but:</p> <p>A) this is difficult because of the disagreement over how many traits there are. B) the trait can be applied to fewer situations. C) a narrow trait applies to a broader range of situations. D) psychologists cannot agree on what such traits are. E) the definitions are fixed and should not be altered.</p> <p>19) Which of the following is Jim, a middle-born, likely to experience?</p> <p>A) He is more likely to feel closely identified with his family. B) He is more rebellious and impulsive. C) He feels more temperamental about his status. D) He is more likely to report having been loved as a child. E) He is more likely to ask for parental help in an emergency.</p> <p>20) Which of the following statements is FALSE?</p> <p>A) Genes may influence how easily the autonomic nervous system is aroused. B) Genes seem to influence how a person responds to particular situations. C) The environment influences one's desire for social closeness/intimacy. D) The environment may determine whether or not someone high in psychoticism becomes a creative artist or mentally ill. E) The MISTRA study found that the environment is the largest single contributor to personality traits.</p>						
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- 21) Suppose Patty reads a certain children's book fairly regularly to her unborn child several weeks before she gives birth. Once her child is born, her baby will _____.
 A) show a preference for her mom reading any story
 B) show a preference for any female voice regarding the specific story while in the womb
 C) show a preference for her mom reading a story other than the one read in the womb
 D) show a preference for her mom reading the specific story read while in the womb
 E) show none of the above preferences
- 22) The key difference between infant and adult audition is that infants _____.
 A) a dissonant stimulus makes them less physically active
 B) look longer at speakers that produce consonant sounds
 C) do not focus on relations among pitches
 D) do not focus on absolute pitches
 E) prefer dissonance to consonance
- 23) Elka is 9 years old. She has been working on her science project which places different dinosaurs into different periods of time. Which stage of cognitive develop is she most likely in?
 A) Preoperational
 B) Concrete Operations
 C) Biophysical
 D) Formal Operations
 E) Sensorimotor
- 24) A lasting (positive) legacy of Piaget's model of cognitive development was his _____.
 A) use of methods for behaviors that could not be easily observed
 B) ability to fully explain why conservation and egocentrism occur
 C) observation that there are qualitative shifts in children's performance as they age
 D) accuracy of when children adopt given cognitive skills
 E) ability to understand that children can be quite sophisticated in how they adopt certain skills
- 25) The case of "John/Joan" can best be understood by realizing the importance of _____ in terms of its impact on gender identity.
 A) societal expectations
 B) sexual orientation
 C) peer relationships
 D) family relationships
 E) exposure to sex hormones while in the womb

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<p>26) Katie, an outgoing child who likes to explore her surroundings, will learn moral standards best if her mother _____.</p> <p>A) uses direct feedback provided that they have a close relationship</p> <p>B) encourages her to do right instead of threatening about the consequences of doing wrong</p> <p>C) uses gentle discipline</p> <p>D) just takes a passive role and allows Katie to learn about the implications of her behavior by herself</p> <p>E) uses direct feedback irrespective of the quality of their relationship</p> <p>27) Sabina hates going food shopping. When she goes, she finds that her heart starts beating and her breathing is labored. In contrast her husband, Dacian, finds food shopping relaxing. This situation emphasizes _____.</p> <p>A) the objective nature of the stressful situation</p> <p>B) the problems with couples food shopping</p> <p>C) how our perception of the situation influences our stress level</p> <p>D) the similarities within married couples' stress responses</p> <p>E) how our body returns to homeostasis</p> <p>28) Fabiana is beginning to realize that so-called 'surprise quizzes' in her math class really aren't too much of a surprise at all since they tend to occur every week. Accordingly, she accepts that fact and regularly reviews the course material. This example BEST illustrates that _____.</p> <p>A) coping is a whimsical process</p> <p>B) perceiving a lack of control typically produces stress</p> <p>C) events beyond our control can still be predictable</p> <p>D) there can be a mismatch between perceived control and the preferred level of control</p> <p>E) sometimes people have little opportunity to control events</p> <p>29) Which of the following is NOT a specific job characteristic associated with burnout?</p> <p>A) Chronic conflict on the job</p> <p>B) Job description is unclear</p> <p>C) Frequent bonuses</p> <p>D) Lack of social support</p> <p>E) Unlikely chance of promotion</p> <p>30) Ted's mom leaves pamphlets around the house about the dangers of smoking and has a rule that no one is allowed to smoke in the house. She is trying to use what two processes of change to help Ted out of the precontemplation stage?</p> <p>A) self-liberation and self-reevaluation</p> <p>B) consciousness raising and social liberation</p> <p>C) reinforcement management and consciousness raising</p> <p>D) emotional arousal and self-reevaluation</p> <p>E) precontemplation and action</p>					
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- 31) A recent review of the studies on humor's effect on the immune system concluded _____.
 A) that laughter is beneficial in the face of stress or how humor changes people's cognitive appraisal of a stressful event
 B) that it is self- or other-effacement that is particularly helpful in coping
 C) that humor is only beneficial in coping with certain select events
 D) that humor really is as beneficial as previously believed
 E) that humor cannot prevent illness
- 32) Which of the following is FALSE concerning optimists?
 A) They are less likely to develop symptoms of depression.
 B) They are more likely to die of heart problems.
 C) They report less stress as college students.
 D) They recover more quickly after surgery.
 E) They report higher levels of psychological well-being during stressful periods.
- 33) If Jerry has some sort of psychological disorder about which there are relevant psychosocial and environmental problems, then his clinician will likely note those psychological and environmental problems on Axis _____ of the DSM-IV.
 A) V B) II C) IV D) I E) III
- 34) A diagnostic bias often occurs due to _____.
 A) poor clinical training of a doctor
 B) a patient's inability to fully list all of their symptoms
 C) conflicting expert opinions amongst doctors
 D) sub-standard medical care or HMOs
 E) nonmedical factors
- 35) Yen, Robins, and Lin (2000) found that, with respect to the questions pertaining to bodily symptoms of depression, _____.
 A) Chinese individuals have lower scores than the two American comparison groups
 B) Chinese individuals have the highest scores than the two American comparison groups
 C) there was a significant difference between the Chinese American and Caucasian American groups
 D) both Chinese and Chinese American individuals have lower scores than Caucasian Americans
 E) None of the above

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- 36) Which of the following statements MOST accurately depicts how neurotransmitters affect depression?
- A) Having too much of certain neurotransmitters causes depression.
 - B) Having too little of certain neurotransmitters causes depression.
 - C) Having either too much or too little of certain neurotransmitters causes depression.
 - D) People with depression experience some change in the activity of certain neurotransmitters.
 - E) Researchers do not generally think that neurotransmitters affect depression.
- 37) Recent research has called into question the importance of _____, in particular, in developing specific phobias.
- A) classical conditioning
 - B) all forms of learning
 - C) subliminal conditioning
 - D) operant conditioning
 - E) observational learning
- 38) If an individual has suffered a particularly severe trauma, events at the levels of the _____ will be _____ important in moderating the trauma's effects.
- A) brain and person; less
 - B) group and person; more
 - C) brain and person; more
 - D) group and brain; less
 - E) group and person; less
- 39) According to psychodynamic theory, whose interpretations of the patient's words and behaviors are considered to be more valid?
- A) The spouse
 - B) The patient
 - C) The therapist
 - D) The parent
 - E) All of the above are equally valued
- 40) Dinah, a therapist, works with her clients to help them change their problematic behaviors and irrational thoughts and provide new, more adaptive behaviors and beliefs to replace old, maladaptive ones. Dinah uses what type of therapy?
- A) Psychoanalysis
 - B) Behavior
 - C) Electroconvulsive
 - D) Cognitive-behavior
 - E) Client-centered

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<p>41) Suppose during a therapy session Yvonne says "Yeah, I know my life is a mess – but it's because everyone and everything I've ever dealt with have caused havoc in my life!" Albert Ellis would view Yvonne's statement as illustrative of the process he calls _____.</p> <p>A) catastrophic exaggeration B) low frustration tolerance C) dichotomous thinking D) hostility and rage E) self-downing</p> <p>42) Systems therapy uses a variety of techniques. Which technique encourages a behavior that seems contradictory to the desired goal?</p> <p>A) Reframing B) Transference C) Validation D) Habituation E) Paradoxical intention</p> <p>43) In terms of who is seen for treatment, family therapists necessarily conceptualize "family" as _____.</p> <p>A) any group of individuals who view themselves or function as a family B) at least a married or cohabitating heterosexual couple C) at least part of the entire unit of a traditional family D) the entire unit of a traditional family E) the majority of individuals who are living together in a household</p> <p>44) Based on relevant research on treatment of psychological disorders, why might someone choose psychotherapy over medication in order to treat depression?</p> <p>A) Many individuals are concerned about the long-term side effects of such medications. B) There really isn't a good reason as to why someone might choose psychotherapy over medication. C) There is a greater stigma against medication than psychotherapy. D) There is a high relapse rate once medication is discontinued. E) Psychotherapy has consistently been shown to be superior in treating depression than medication.</p> <p>45) If a man believes he is talking on the phone to a physically attractive woman, the woman will likely _____.</p> <p>A) be offended B) behave in a friendlier way C) believe that the man is physically attractive D) question the man's motives E) be exceptionally physically attractive</p>						
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- 46) Carl tries to justify cheating on his taxes by saying "The government can always print more money." Carl's statement is MOST consistent with the dissonance reduction technique of _____.
 A) minimizing his responsibility
 B) changing how he understands his immoral act
 C) blaming the victim
 D) disregarding the negative consequences
 E) denying his immoral character
- 47) According to social identity theory, individuals view their own group favorably so as to _____.
 A) enhance their own self-esteem
 B) denigrate the outgroup
 C) promote their ingroup
 D) expand the boundaries of social categorization
 E) deny the illusion of outgroup homogeneity
- 48) Kelley's theory of causal attribution predicts that we attribute behavior to external causes when consensus is _____, consistency is _____, and distinctiveness is _____.
 A) high; high; low
 B) low; high; low
 C) low; low; low
 D) high; high; high
 E) high; low; low
- 49) A growing feeling of intimacy comes in part from _____.
 A) sexual lust
 B) being able to predict your partner's behaviors
 C) being able to predict your partner's feelings
 D) just being in a relationship for a long period of time
 E) feeling validated
- 50) Which of the following statements is FALSE regarding the protocol of Milgram's initial obedience study?
 A) Participants were told that they were participating in a study of memory.
 B) In reality, no shocks were actually administered to the learner.
 C) The teacher was free to choose the shock level to use on the learner.
 D) At one point in the study, the learner actually pounded on the wall and demanded to be set free.
 E) The experimenter never threatened the teacher in any way if he chose not to obey his orders.

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51) development in psychology that emphasizes analogies between the ways computers and people store and process data is:

- (A) psycholinguistics (B) neuropsychology
(C) information-processing (D) functionalism

52) To study the association between stimulus (S) and response (R), so called S-R psychology, is an approach taken within the ____ perspective.

- (A) cognitive (B) subjective
(C) biological (D) behavioral.

53) Mental strategies and goals are often inborn, and the results of natural selection. This is a key idea related to ____.

- (A) gestalt psychology (B) humanistic psychology
(C) evolutionary psychology (D) Industrial and organizational psychology

54) ____ studies the use of medication to treat psychological disorders which is based on the preclinical investigation of the effects of drugs on behavior.

- (A) psychoanalysis (B) psychophysiology
(C) psychoneuroimmunology (D) psychopharmacology

55) In experimental design given in the research of psychological science, the difference between the experimental and control groups is that ____.

- (A) Experimental group has more subjects than the control group.
(B) Data for the experimental group are processed by statistical methods, whereas those for the control group are *not*.
(C) the experimental group containing the manipulation designed and conducted by the investigator.
(D) the control group containing the manipulation designed and conducted by the investigator.

56) In drug test study in medicine, the so-called placebo can be thought as the ____.

- (A) experimental group (B) control group
(C) correlational group (D) hypothesized group

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57) Which of the following best represents the order in which a neuron receives and transmits information?

- (A) dendrites, axon, cell body, terminal buttons
- (B) dendrites, cell body, axon, terminal buttons
- (C) cell body, dendrites, terminal buttons, axon
- (D) axon, cell body, dendrites, terminal buttons

58) A(n) _____ is a site on the dendrite or cell body where a messenger molecule attaches itself.

- (A) vesicle
- (B) synaptic cleft
- (C) neuromodulator
- (D) receptor

59) Agonist is to antagonist as _____ in terms of neurochemical transmission.

- (A) neuromodulator is to neurotransmitter.
- (B) disease is to healthy
- (C) mimic is to block.
- (D) block is to mimic.

60) "Fight-or-flight" is to "rest and digest" as:

- (A) sympathetic nervous system is to parasympathetic
- (B) parasympathetic nervous system is to sympathetic
- (C) autonomic nervous system is to sympathetic
- (D) autonomic nervous system is to parasympathetic

61) The subcortical structure that is key in allowing us to process or form spatial memories is called the _____.

- (A) frontal lobe
- (B) medulla and pons
- (C) amygdala
- (D) hippocampus

62) Which of the following brain areas play a crucial role in brain's response to reward and related motivational learning?

- (A) nucleus accumbens
- (B) medulla and pons
- (C) periaquiductal gray
- (D) anterior cingulate cortex

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3. 試題由郵寄遞者請以掛號寄出，以免遺失而示慎重。

考 試 科 目	普通心理學	系 別	心理學系	考 試 時 間	7月9日 星期五	第 2 節
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63) The hypothalamic-pituitary-adrenal (HPA) axis may be activated by all of the following EXCEPT:

- (A) bacteria or viruses (B) occipital lobe
(C) psychological stress (D) pain

64) When we compare chimpanzees with humans, we find that about _____ percent of the genetic material in both species is identical.

- (A) 5 (B) 25 (C) 50 (D) 99

65) Plasticity is most evident in all of the following circumstances EXCEPT _____.

- (A) during infancy and childhood
(B) when we learn something new or store new information
(C) when the body changes
(D) when we are trying to undo previous pruning

66) The brain damaged areas for clinical cases in neuropsychology for H.M. and Phineas Gage are located in the _____ and _____ lobes, respectively.

- (A) frontal; parietal (B) frontal; temporal
(C) temporal; frontal (D) parietal; frontal

67) Suppose Jolin is painting while the sun is setting; once she notices that the room is getting darker, she decides to call it quits for the day on her painting. This example illustrates the role of _____.

- (A) threshold (B) a just-noticeable difference
(C) absolute threshold (D) bias

68) According to signal detection theory, to change one's bias, what does she or he one need to adjust ?

- (A) criterion (B) discrepancy
(C) expectation (D) signal

69) All of the following are true about cones EXCEPT:

- (A) Cones are less in number than rods.
(B) Cones are responsible for color vision.
(C) Cone cells actually look like cones.
(D) Cones are more sensitive to light than rods.

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70) Which of the following pairs is considered to be an example of opponent cells?

- (A) green/orange (B) red/pink
(C) yellow/blue (D) black/brown

71) You will more than likely see "XXX XXX XXX" as three groups of "X" rather than one group of nine "X"s. This example illustrates which of the following Gestalt Laws?

- (A) continuity (B) similarity
(C) closure (D) proximity

72) The *phi* phenomenon refers to the illusion of _____.

- (A) color (B) light
(C) sound (D) movement

73) The "what" and "where" pathways are referring to the _____ lobes, respectively.

- (A) parietal and temporal (B) temporal and parietal
(C) frontal and occipital (D) frontal and temporal

74) _____ occurs when a stimulus is sufficiently different from the ones around it that it is immediately evident.

- (A) Attention (B) Selective attention
(C) Pop-out (D) Divided attention

75) All of the following are associated with limits of attention EXCEPT:

- (A) Doing one task at a time (B) Redundant signal effect
(C) Stroop effect (D) Afterimages

76) In auditory sense, pitch is to frequency as _____.

- (A) frequency is to amplitude
(B) high is to low
(C) loudness is to amplitude
(D) peak is to wave

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77) Jay has been told by his doctor that he is experiencing _____ due to hair cells that were destroyed as a result of loud sounds.

- (A) nerve deafness (B) categorical perception
(C) conduction deafness (D) a speech segmentation problem

78) Chemical senses typically include _____.

- (A) smell and touch (B) pain and touch
(C) smell and pain (D) smell and taste

79) Odor detection is often described by using a _____ metaphor.

- (A) tide and boat (B) television and remote control
(C) thermostat and furnace (D) lock and key

80) The language production is generally argued as being generative, meaning that _____.

- (A) production is very limited
(B) comprehension is culture-specific
(C) comprehension is unconscious
(D) we create new sentences all the time

81) B. F. Skinner believed that language was learned mainly through _____.

- (A) general cognitive abilities (B) genetic influences
(C) imitation and reinforcement (D) observational learning

82) Which is the correct sequence of normal language development?

- (A) Babble, produce words, understand words
(B) Babble, understand words, produce words
(C) Understand words, babble, produce words
(D) Produce words, understand words, babble

83) Gestures are particularly helping in _____.

- (A) causing the tip-of-the-tongue phenomenon
(B) preventing the consolidation of information
(C) creating a new language
(D) freeing up cognitive resources

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84) From the recent research findings using brain imaging techniques (e.g. fMRI), the amount of overlap shared between visual images and visual perception in certain parts of the brain is _____.

- (A) more than half (B) nonexistent
(C) absolutely identical (D) less than half

85) An advantage of algorithms over heuristic is _____.

- (A) algorithms are much faster
(B) algorithms result in a correct answer
(C) algorithms are short-cuts
(D) algorithms use rules-of-thumb

86) Experts differ from non-experts in terms of _____.

- (A) how their knowledge is organized
(B) their skill in a wide variety of domains
(C) brain size
(D) natural ability

87) All of the following are helpful tips in trying to overcome obstacles to solving problems EXCEPT _____.

- (A) don't lose sight of what actually constitutes the problem
(B) don't get locked into viewing your resources in only one way
(C) make use of a mental set
(D) walk away from the problem for a while if you get stuck

88) The concept of the confirmation bias specifically assumes that we are most likely to believe _____.

- (A) the scientific method as true
(B) information that agrees with our thinking
(C) information that refutes our thinking
(D) logical thinking

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89) In the study of mind, bottom-up processing is initiated by _____, whereas the top-down processing is initiated by _____.

(A).the physical stimulus; the reflex response
(B).the reflex response; the physical stimulus
(C).the physical stimulus; the cognitive belief
(D).the cognitive belief; the physical stimulus

90) Anticipatory nausea is seen in some people who:

(A) are receiving chemotherapy.
(B) have lung disease.
(C) have stomach ailments.
(D) do not respond well to nontraditional medicines.

91) Which of the following is NOT true to differentiate the classical and operant conditioning?

(A) classical : operant = the organism is passive : the organism is active
(B) classical : operant = reflexive response : voluntary response
(C) classical : operant = elicited response : emitted response
(D) classical : operant = S-R (R-S) : S-S

92) Which of the following paradigms is mostly used to explain a successful advertisement with sex appeal for promoting the sale of certain commercial product(s).

(A) classical learning (B) operant learning
(C) social learning (D) insight learning

93) Iconic memory is to echoic memory as _____.

(A) implicit is to explicit
(B) quick is to slow
(C) auditory is to visual
(D) visual is to auditory

94) What was Ebbinghaus' major contribution to the study of memory?

(A) He coined the term "working memory".
(B) He provided neurological evidence that STM and LTM are distinct.
(C) He demonstrated that most of memory is unconscious.
(D) He provided behavioral evidence that STM and LTM are distinct.

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95) Which of the following is most likely to be memorable for most people?

- (A) A photograph of a dead soldier
- (B) A photograph of a bird
- (C) A photograph of the earth from space
- (D) A random photograph

96) Based on the autobiographical memory, which of the following brain areas is activated (as measured by fMRI) when the subject is looking at a photo containing herself/himself in comparing to other photos without herself/himself?

- (A) thalamus
- (B) basal ganglia
- (C) medial prefrontal cortex
- (D) insula

97) False memories are _____.

- (A) impossible to experience
- (B) experienced only by those who have a form of mental illness
- (C) repressed memories
- (D) memories of events or situations that did not occur

98) Which type of receptor in the following neurotransmitters is most relevant to the formation of long-term potentiation (LTP) in the neurons located in the hippocampus?

- (A) dopamine
- (B) GABA
- (C) NMDA
- (D) glycine

99) Given with its relatively high dose, what drug may produce symptoms similar to that of a paranoid schizophrenia?

- (A) LSD
- (B) amphetamines
- (C) cortisol
- (D) nicotine

100) According to the recent studies using neurophysiological and brain imaging techniques, the activation of _____ has been suggested to account for the neural basis of empathy.

- (A) mirror neurons
- (B) stem cells
- (C) pyramidal cells
- (D) CA1 neurons

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一、迴歸方程式 $\hat{Y} = bX + a$ ，其中 a 為截距， b 為斜率，證明 $b = \frac{COV_{XY}}{S_X^2}$ 。(25%)

二、在 one-way between-subject ANOVA 中，受試者 i 於情境 j 所得分數為 Y_{ij} ，令各分數與總平均之差的平方和 (SSTO) 為 $\sum \sum (Y_{ij} - \bar{Y})^2$ ，此平方和可被分割為組內差異平方和 $SSWG = \sum \sum (Y_{ij} - \bar{Y}_j)^2$ ，與組間差異平方和 $SSBG = \sum \sum (\bar{Y}_j - \bar{Y})^2$ 兩種，試證明之。(25%)

三、給定任一母群，平均數 μ ，標準差 σ ，試說明中央極限定理（樣本數 n ）。(20%)。

四、請從相關與迴歸模型的概念說明迴歸中數原則。(20%)

五、如果已知 $\hat{y} = .36x + 10$ ， $\hat{x} = .49y - 8$ ，試求 r_{xy} 。(10%)

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