

考試科目	普通心理學	所別	心理系	考試時間	7月10日 星期五	第 2 節
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選擇題 選擇題請在答案卡上作答，否則不予計分。

Items 1-8; Please choose a specialized psychology professional whose work is to deal with the question described in each of the following eight item.

1. How can people cope better with day-to-day problems?

- (a) cognitive psychologists (b) educational psychologists
(c) personality psychologist (d) counseling psychologist

2. How do memories get stored in the animal brain?

- (a) cognitive psychologists (b) biological psychologists
(c) personality psychologist (d) clinical neuropsychologist

3. Why people cannot recall the material with which encoding process being disturbed?

- (a) cognitive psychologists (b) educational psychologists
(c) personality psychologist (d) counseling psychologist

4. What make people different from one another?

- (a) cognitive psychologists (b) perception psychologists
(c) personality psychologist (d) forensic psychologist

5. How does peer pressure work?

- (a) cognitive psychologists (b) developmental psychologists
(c) social psychologist (d) clinical neuropsychologist

6. Why biofeedback of physiological signal can ameliorate human anxiety?

- (a) personality psychologists (b) educational psychologists
(c) clinical neuropsychologist (d) biological psychologist

7. What do babies know about the world?

- (a) biological psychologists (b) developmental psychologists
(c) social psychologist (d) counseling psychologist

8. How should teachers deal with disruptive students?

- (a) cognitive psychologists (b) educational psychologists
(c) biological psychologist (d) personality psychologist

備 考 試 題 隨 卷 繳 交

命 題 委 員 :

(簽章) 78年6月28日

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考 試 科 目	普 通 心 理 學	所 別	心 理 系	考 試 時 間	7 月 10 日 星期五	第 2 節
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9. Central nervous systems : peripheral nervous systems = _____ : _____ .

- (a) brain : spinal cord
- (b) brain : sympathetic nervous system
- (c) parasympathetic nervous system : sympathetic nervous system
- (d) thalamus : hypothalamus

10. In the neuron, which of the following statements is correct?

- (a) axon : dendrite = input : output
- (b) Electrical transmission is the only communication between neurons.
- (c) The myelinated axon conducted information faster than the un-myelinated one.
- (d) Neither neuron nor glia is a cell.

11. Which lobe of the cerebral cortex does mediate the input of somatic sensory information from the peripheral of the body?

- (a) frontal
- (b) parietal
- (c) temporal
- (d) occipital

12. Which of the following processes is NOT true to characterize the classical neurotransmitter such as dopamine?

- (a) to be stored in the vesicle after being synthesized
- (b) Influx of calcium ion is essential for driving the release of neurotransmitter.
- (c) Action potential is essential for driving the release of neurotransmitter.
- (d) Passive diffusion is the force for the re-uptake transporter.

13. To activate _____ neurotransmission system by its agonist drug is currently serving as a treatment to ameliorate the dementia syndromes of Alzheimer's disease.

- (a) cholinergic
- (b) adrenergic
- (c) dopaminergic
- (d) serotonergic

14. Alcohol and barbiturates are in the class of drugs termed:

- (a) depressants
- (b) stimulants
- (c) opiates
- (d) hallucinogens

15. When the prefrontal cortex is damaged, which of the following syndrome would be most likely to appear?

- (a) impulsive response
- (b) loss of motor balance
- (c) impaired vision
- (d) disruption of hormone homeostasis

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16. Which of the following hormones or neuropeptides is NOT released under the stress?

- (a) corticotropin-releasing hormone (CRH)
- (b) adrenocorticotropin hormone (ACTH)
- (c) norepinephrine
- (d) melatonin

17. Which of the following instruments is nowadays used to study the cognitive function of the living human brain?

- (a) electroencephalogram (EEG)
- (b) positron emission tomography (PET)
- (c) functional magnetic resonance imaging (fMRI)
- (d) all of the above

18. In Gestalt determinants of grouping, the tendency to group together objects that are *near* to one another is called ____.

- (a) similarity
- (b) proximity
- (c) good continuation
- (d) closure

19. Studies in the area of eye fixation indicate that people selectively attend to:

- (a) object which appearance against the law or culture (i.e. weapons)
- (b) features of the face that most efficiently distinguish it from others
- (c) unusual objects
- (d) all of the above

20. In the mammals, the limbic system of the brain is thought to mediate the _____ function.

- (a) visual
- (b) auditory
- (c) emotional
- (d) motor

21. The most elementary form of perceptual organization deals with the ____.

- (a) detection of motion
- (b) arrangement of elements into figure and ground
- (c) perception of distance
- (d) grouping of objects

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22. By Hubel and Wiesel, their famous work to delineate the feature detectors of the visual cortex had been done by the technique of _____.

- (a) single-cell recording techniques with animals
- (b) transmagnetic stimulation (TMS)
- (c) functional magnetic resonance imaging (fMRI)
- (d) people with brain damage

23. The features of objects related to geometric forms are called _____.

- (a) neurons
- (b) nephrons
- (c) geons
- (d) ions

24. The famous Ames room is related to _____.

- (a) depth perception
- (b) color figure
- (c) figure and ground
- (d) size illusion

25. In comparing to facial recognition, the judgment of dot-location can activate which lobe of cortex.

- (a) frontal
- (b) parietal
- (c) occipital
- (d) temporal

26. Responses are learned because they affect the environment in the process called

- (a) classical conditioning
- (b) operant conditioning
- (c) second-order conditioning
- (d) spurious associations

27. The idea that for conditioning to occur the CS and the UCS must occur close together in time was important for Pavlov's view that classical conditioning is a process of _____.

- (a) cognitive mapping
- (b) temporal contiguity
- (c) predictability.
- (d) insight

28. If a parent wanted to develop persistence of a response in the face of extinction with his/her child, he/she should:

- (a) use classical conditioning procedures instead of instrumental ones
- (b) use partial reinforcement
- (c) use continuous reinforcement.
- (d) not use reinforcement at all.

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29. When reinforcement depends upon how much time has elapsed, we speak of:

- (a) ratio schedules (b) interval schedules
(c) aversive conditioning (d) classical conditioning

30. The larger the ratio required in the fixed-ratio schedule, the longer the _____ appears.

- (a) post reinforcement pause
(b) inter-response time
(c) latency to initialize the very first response
(d) time to pick up the reinforcer

31. The learning curve of instrumental learning will be speeded up by _____ reinforcement.

- (a) immediate (b) delayed (c) discounted (d) withholding

32. In terms of response rate, behavior with negative reinforcement will _____, while behavior with positive reinforcement will _____.

- (a) increase, increase (b) decrease, increase
(c) decrease, increase (d) decrease, decrease

33. In the following cases, which development or performance is NOT based on the principles of classical conditioning?

- (a) food or taste aversion developed in the cancer patient
(b) increased fear reaction when the individual approaching to a place where he/she had been robbed and got hurt badly.
(c) in advertising, to show a famous movie star along with the commercial product
(d) training the dolphin to jump over 3 meters high and hit a balloon

34. Which of the following neurotransmitters is most critically involved in the reinforcement process of operant conditioned behavior?

- (a) GABA (b) norepinephrine
(c) dopamine (d) serotonin

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35. Regarding a human subject who has regular sleep habit (e.g. 8 hours of sleep from 10 p.m. to 6 a.m.); If you observe his eyes moving rapidly under closed lids at 5 a.m., you might conclude that the person is:
- (a) about to show sleep walking (b) in a so-called paradoxical sleep stage.
(c) not really asleep. (d) a victim of a common sleep disorder.
36. During the REM sleep stage, the brain activity is ____ and the skeletal muscle strength is ____.
- (a) high; high (b) high; low (c) low; high (d) low; low
37. In terms of homeostatic sleep drive, which of the followings is correct?
- (a) That sleep can be deprived indicates people can awaken as much as wanted.
(b) Sleep is a psychologically-based function and not mediated in physiological.
(c) A rebound of sleep activity definitely appears in people stay overnight.
(d) The length of sleep is the same in individuals with different ages.
38. In drug dependence, that individual would take more and more of drug (also in terms of doses) to achieve the same effect is a syndrome called ____.
- (a) withdrawal (b) compulsive use (c) tolerance (d) craving
39. Which of the following drug is used in clinical to improve the attention deficit hyperactive disorder?
- (a) amphetamine (b) morphine (c) LSD (d) fluoxetine
40. If you have a very vivid recollection of emotional events surrounding, say, the 921 earthquake, you have what technically is termed a(n):
- (a) lucid dream (b) eidetic intrusion.
(c) flashbulb memory (d) displacement override
41. After learning a list of words, we would expect good recall of items from the
- (a) beginning of the list (b) middle of the list
(c) end of the list (d) both a and c.
42. _____ is referred to the facilitation by the prior exposure to a stimulus.
- (a) priming (b) recall
(c) recollection (d) chunk

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43. In regarding the memory, which of the following statements is NOT true?

- (a) Recognition is generally easier than recall
- (b) Chronic stress can impair memory by the enhancement of cortisol impairing the function of hippocampus.
- (c) False memory is the result of forgetting.
- (d) Memory can be classified into multiple types rather than just one type of long term memory.

44. Retrograde amnesia : anterograde amnesia = _____ : _____

- (a) disrupting previous memory : disrupting newly-formed memory
- (b) disrupting newly-formed memory : disrupting previous memory
- (c) disrupting explicit memory : disrupting implicit memory
- (d) disrupting implicit memory : disrupting explicit memory

45. Broca's aphasia : Wernicke's aphasia = _____ : _____

- (a) production of speech : comprehension of speech
- (b) comprehension of speech : production of speech
- (c) semantic processing : synthetic processing
- (d) synthetic processing : semantic processing

46. When Children start to understand that utterances can have both literal and implied meaning, they are beginning to understand the _____ of language.

- (a) syntax
- (b) morphology
- (c) grammar
- (d) pragmatics

47. Compared to novices, experts in a field or discipline

- (a) are more literal-minded
- (b) seldom used algorithms but instead are masters at using heuristics
- (c) spend more time in deliberate practice
- (d) are better at everything

48. What does current research say about the relationship between emotion and reasoning?

- (a) The processes of emotion and reasoning are independent.
- (b) Emotion always hinders or impairs our reasoning.
- (c) Emotion makes us act like a "fool" to solve the problem.
- (d) Sometime, emotion can enhance our reasoning.

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49. Which of the following statements is TRUE for the effects in regarding to those genes have on obesity?

- (a) Genes are not as important as the individual's preference to certain kinds of food.
- (b) Genes set a possible range for a person's weight.
- (c) Genes completely determine a person's weight.
- (d) Genetic effects are overshadowed by the environment.

50. According to Seligman's theory of learned helpless, and from the empirical study, which of the followings is the major behavior for the subject to show?

- (a) increased motor movement
- (b) increased verbal output
- (c) failure to control temper
- (d) failure to learn avoidance



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

- 51) The fact that microenvironments influence intelligence suggests that _____.
 A) it is impossible to understand how the environment impacts intelligence
 B) only genetic factors determine what is viewed as an appealing environment
 C) even though identical twins have more genes in common than do siblings, both groups tend to have similar microenvironments
 D) your genes help shape aspects of the environment itself
 E) aspects of your environment can help reshape your genes
- 52) The correlation of IQ's for adult identical twins raised apart is _____.
 A) lower than for fraternal twins raised together
 B) higher than for fraternal twins raised together
 C) higher than for identical twins raised together
 D) the same as identical twins raised together
 E) the same as fraternal twins raised together
- 53) Katie is an exceptional violin player, but rather ordinary in other areas. She is most likely _____.
 A) not gifted
 B) gifted in math as well
 C) a prodigy
 D) very different in other ways as well
 E) autistic
- 54) The correlation between speed of processing and IQ _____.
 A) is extremely high
 B) is negative
 C) may reflect a person's effective use of working memory
 D) is not reliable enough to make an explanation
 E) may reflect body size as well
- 55) _____ is credited with developing the idea of an intelligence quotient.
 A) Alfred Binet
 B) Lewis Terman
 C) William Stern
 D) Theodore Simon
 E) David Wechsler

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命題委員：	(簽章) 98 年 6 月 22 日

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- 56) Since Clover is very outgoing, she views staying indoors as a punishment; her brother Justin is quite shy and views staying indoors as an enjoyable event. This example illustrates the importance of the _____.
 A) genetic factors
 B) reaction range
 C) shared environment
 D) perceived environment
 E) objective environment
- 57) The release of leptin is governed by the _____ gene.
 A) ad B) ob C) ab D) od E) ap
- 58) According to Masters and Johnson, the first stage of sexual activity is called _____.
 A) orgasm B) plateau C) resolution D) refractory E) excitement
- 59) The chief function of homeostasis is to _____.
 A) offset unhealthy eating habits
 B) prevent balance
 C) control sexual urges
 D) regulate emotions
 E) maintain a steady state
- 60) According to Ekman, _____ would NOT be considered a basic emotion.
 A) disgust B) anger C) guilt D) fear E) surprise
- 61) The BEST lesson from the story of D.W.'s death from an inability to retain salt is the idea that:
 A) D.W.'s death is attributable to the parents giving in to his desire for salt.
 B) parents should not expect their children to know what they need.
 C) arousal cannot be internal.
 D) maintaining homeostasis is a powerful motivator.
 E) D.W. had abnormal biological needs.

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- 62) The two major drives that motivate human behavior are, according to Freud, _____ and _____.
- A) sex and hunger
 - B) hunger and safety
 - C) pride and prejudice
 - D) aggression and safety
 - E) sex and aggression
- 63) A(n) _____ is any of several unconscious psychological tools that helps an individual to avoid dealing with unpleasant or threatening thoughts.
- A) fantasy
 - B) defense mechanism
 - C) suppressive reality
 - D) unconscious motive
 - E) motivated forgetting
- 64) Temperament generally refers to _____.
- A) situationally determined behaviors
 - B) learned behaviors
 - C) unstable traits
 - D) traits acquired during adulthood
 - E) innate inclinations
- 65) Shanda is afraid of failing one of her final exams, primarily because she thinks the professor gives hard exams and so, no matter how much studying she does, it won't matter. Cognitive theorists would suggest that Shanda:
- A) has an internal locus of control.
 - B) has an external locus of control.
 - C) has an introverted personality.
 - D) has an extroverted personality.
 - E) has a self-serving bias.
- 66) The habituation technique operates on the premise that infants _____.
- A) will become fearful of novel stimuli
 - B) prefer to look at new stimuli
 - C) cannot perceive depth
 - D) enjoy looking at simple patterns
 - E) are able to discriminate their mother's voice from other female voices

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- 67) All of the following Eriksonian psychosocial stages occur in childhood EXCEPT _____.
 A) basic trust vs. mistrust
 B) initiative vs. doubt
 C) integrity vs. despair
 D) industry vs. inferiority
 E) autonomy vs. doubt
- 68) Larry, a ten year old, first sees two identical glasses with water at the same level; then, the water from one of the short, wide glasses is poured into a taller, thinner glass. Larry will likely conclude that _____.
 A) there are equal amounts of water in the shorter, wider and taller, thinner glasses
 B) there is more water in the shorter, wider glass
 C) there is more water in the taller, thinner glass
 D) there are equal amounts of water in the two identical glasses only
 E) some of the water from the shorter, wider glass is now missing
- 69) In general, it is accurate to state that bodily control progresses from the _____.
 A) legs to the arms
 B) hands to the the center of the body
 C) trunk to the head
 D) arms to the trunk
 E) center of the body to the periphery
- 70) Since stress can impair the functioning of white blood cells, it plays an important role in _____.
 A) causing cancer
 B) the healing of wounds
 C) causing repressed memories
 D) contributing to Alzheimer's disease
 E) causing AIDS
- 71) Libby believes that the future is up to her. She knows that she has control over what happens to her and sees every day as an opportunity to learn something new. Libby has a(n) _____ personality.
 A) aggressive
 B) hardy
 C) melancholic
 D) pessimistic
 E) all of the above

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- 72) Octavious is under a lot of stress. He is always tired and feels overwhelmed by his work load. Which phase of the stress response is he most likely in?
- A) alarm phase
B) exhaustion phase
C) persistence phase
D) resistance phase
E) None of the above
- 73) Can the doctors in Rosenhan's (1973) study of pseudopatients be credited with doing anything right?
- A) Yes; most of these doctors quickly figured out that the pseudopatients were "faking" their symptoms.
B) Yes; the doctors did notice that something was amiss given the rare diagnosis they gave to the pseudopatients upon discharge from the hospital.
C) Absolutely not; they completely confused the pseudopatients' symptoms with that of other disorders than schizophrenia.
D) Absolutely not; they should have immediately realized that these pseudopatients were just that.
E) None of the above statements are accurate.
- 74) The most recent edition of the DSM has 17 major categories of disorders. Which category directly pertains to disorders of feelings?
- A) Adjustment
B) Mood
C) Substance-related
D) Anxiety
E) Eating
- 75) Aaron Beck (1967) proposed the idea of _____ to explain the negative view of the world, the negative view of themselves, and the negative view of the future in the thoughts of depressed people.
- A) Negative triad
B) Attributional style
C) Positive triad
D) Cognitive distortions
E) Rumination

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(簽章) 98年6月22日

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考試科目	普通心理學	所別	心理系	考試時間	7月10日 星期五	第2節
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- 76) Based on relevant research on treatment of psychological disorders, why might someone choose psychotherapy over medication in order to treat depression?
- A) Many individuals are concerned about the long-term side effects of such medications.
 - B) Psychotherapy has consistently been shown to be superior in treating depression than medication.
 - C) There is a high relapse rate once medication is discontinued.
 - D) There is a greater stigma against medication than psychotherapy.
 - E) There really isn't a good reason as to why someone might choose psychotherapy over medication.
- 77) _____ is (are) drugs that treat depression by affecting both the serotonin and norepinephrine systems.
- A) MAOIs
 - B) SSRIs
 - C) SNOIs
 - D) St. John's wort
 - E) SNRIs
- 78) 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) Client-centered
 - B) Psychoanalysis
 - C) Cognitive-behavior
 - D) Behavior
 - E) Electroconvulsive
- 79) The jigsaw method has proven to be a very effective means of reducing prejudice and encouraging cooperation particularly in the context of _____.
- A) classrooms
 - B) church-based functions
 - C) disputes amongst neighbors
 - D) legal settings
 - E) political or governmental meetings

備 考試 題 隨 卷 繳 交

命 題 委 員 :

(簽章) 98 年 6 月 22 日

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考試科目	普通心理學	所別	心理系	考試時間	7月10日 星期五	第2節
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- 80) In describing their ideal mate, men and women are generally in agreement on the value of all of characteristics EXCEPT _____.
 A) dependability
 B) intelligence
 C) emotional stability
 D) wealth
 E) kindness
- 81) An appealing aspect of the Raven's Progressive Matrices test is that it is _____.
 A) independent of one's fluid intelligence
 B) believed to be the "best" measure of IQ by most experts
 C) the only IQ test approved by the U.S. government to be used in public schools
 D) easy to administer
 E) mostly free of cultural influences
- 82) Over time, IQ scores have _____ and g has accounted for progressively _____ of the variability in intelligence scores.
 A) risen; less
 B) remained constant; more
 C) declined; more
 D) declined; less
 E) risen; more
- 83) Who was the first to systematically study actual sexual behavior?
 A) Alfred Kinsey
 B) Karey Horney
 C) Masters and Johnson
 D) Sigmund Freud
 E) Kinney and Leaton
- 84) Who is most likely to be happiest, based on surveys conducted from the 70's to the 90's?
 A) Keith, a white man
 B) all are likely to be equally happy
 C) Sylvia, a white woman
 D) Dainon, an African-American man
 E) Mena, a black woman

備	考試題隨卷繳交
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命題委員：

(簽章) 98年6月22日

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考試科目	普通心理學	所別	心理系	考試時間	7月10日 星期五	第2節
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- 85) _____ is the belief that a person's behavior is governed not by internal traits but the situation.
- A) Relativity hypothesis
B) Situationism
C) Assigned reality
D) An external locus of control
E) Interactionism
- 86) _____ is the view that even mundane or seemingly insignificant behavior has an underlying psychological cause.
- A) Psychological determinism
B) Reciprocal development
C) Atypical behavior theory
D) Behavioral relativity
E) Relativity
- 87) Which reflex is elicited by stroking the infant's cheek lightly causing the infant to turn his or her head and start trying to suck?
- A) Babinski B) Rooting C) Withdrawal D) Moro E) Plantar
- 88) John and Seth both just moved to New York City. John is a native of Tokyo and Seth has lived his life in a rural town in Iowa. Seth finds it much more difficult to cope with high-density living conditions than does John. Based on this information, it is MOST likely that the effects of _____ help to explain this difference.
- A) gender B) race C) personality D) religion E) culture
- 89) Tara and Sarah are identical twins. If Tara has bipolar disorder, then Sarah has _____.
- A) a 100% chance of developing bipolar disorder
B) a 100% chance of developing a mood disorder
C) an 80% chance of developing a mood disorder
D) less than an 80% chance of developing either a mood or anxiety disorder
E) an 80% chance of developing a bipolar disorder

備 考試題隨卷繳交

命題委員：

(簽章) 98 年 6 月 22 日

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考試科目	普通心理學	所別	心理系	考試時間	7月10日 星期五	第2節
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- 90) For _____ disorders, certain forms of psychotherapy provide _____ long-term relief of symptoms as do medication.
- A) anxiety and depressive; much more
B) depressive (only); at least as much
C) anxiety and depressive; less
D) depressive (only); much more
E) anxiety and depressive; at least as much
- 91) Social cognitive neuroscience _____.
- A) considers how cognitive mechanisms are rooted in the brain
B) bridges cognitive neuroscience and social cognition
C) attempts to understand social cognition by specifying the cognitive mechanisms that underlie the brain
D) examines how social cognition arises from cognitive processes that in turn arise from the brain
E) attempts to accomplish all of the above goals
- 92) Creativity is believed to involve a _____-stage process.
- A) three B) four C) five D) two E) six
- 93) The four stages of sexual activity include excitement, plateau, orgasm and _____.
- A) reinforcement
B) reinstitution
C) resolution
D) rest
E) refraction
- 94) Which is the best predictor of a child's attachment style?
- A) The number of siblings
B) The child's birth order
C) The education level of the parents
D) The mother's attachment style
E) The father's attachment style

備 考 試 題 隨 卷 繳 交

命 題 委 員 : (簽章) 98 年 6 月 22 日

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考 試 科 目	普通心理學	所 別	心理系	考 試 時 間	7月10日 星期五	第 2 節
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95) Which of the following is an example of a teratogen?

- A) chicken pox
- B) cocaine
- C) caffeine
- D) alcohol
- E) All of the above

96) Trying not to think about something emotionally arousing is known as _____.

- A) a hostile attribution bias
- B) working through an event
- C) inverse venting
- D) thought suppression
- E) thought repression

97) Individuals with Dissociative Identity Disorder _____.

- A) do not show different physiological patterns with respect to their different alters
- B) do show different physiological patterns with respect to their different alters but many researchers question whether this may reflect role-playing behavior
- C) do show different physiological patterns with respect to their different alters and most researchers affirm this point
- D) try to exhibit physiological patterns with respect to their different alters, but they are not usually successful
- E) do show different physiological patterns with respect to their different alters but most researchers just believe that such individuals are experiencing hallucinations during this time

98) Which of the following is NOT an example of a therapy modality?

- A) Group therapy
- B) Family therapy
- C) Individual therapy
- D) All of the above are therapy modalities
- E) None of the above are therapy modalities

備 考 試 題 隨 卷 繳 交

命 題 委 員 :

(簽章) 98 年 6 月 22 日

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考試科目	普通心理学	所別	心理系	考試時間	7月10日 星期五	第2節
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- 99) An example of _____ is the decision by NASA to launch the space shuttle Challenger despite widespread concerns about its booster rockets.
- A) diffusion of responsibility
 - B) social facilitation
 - C) social loafing
 - D) groupthink
 - E) group polarization
- 100) In terms of group racial differences in IQ, there is evidence that _____.
- A) Asian Americans score higher than White Americans
 - B) African Americans outperform Hispanics
 - C) all races seem to perform equally well
 - D) Asian Americans and White Americans perform equally as well and higher than African Americans and Hispanics who perform equally as well
 - E) White Americans outperform all other races



備 考試題隨卷繳交

命題委員： (簽章) 98年6月22日

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考 試 科 目	心理及教育統計學	系 別	心理系	考 試 時 間	7 月 10 日 星期五	第 四 節
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* 請描寫重要計算過程，以方便給部份分數。

一、試證明 $\sum_{i=1}^n |X_i - Med| \leq \sum_{i=1}^n |X_i - a|$ ，其中 Med 是 X 的中位數， a 為任意常數， $|X|$ 表示取 X 的絕對值。(二十分)

二、假設政大心理系學生身高呈常態分配，平均數是 175，標準差是 5。

1、已知小王是政大心理系學生，請問他身高的可能區間為何？(十分)

2、小王隨機找了九位系上學生組成棒球隊，請問棒球隊平均身高的可能區間為何？(十分)

三、廖老師猜測某種化學物質可能影響老鼠食慾，於是隨機分派老鼠至三組，每組各十隻，測量老鼠食量，結果如下表。型一錯誤率設定在 .05，三組資料的 ANOVA 結果顯示組間效果不顯著 ($F(2,27)=3.088$, $p=.066$)。不過，如果以 t 檢定分析，雖然組一、二的平均數差異不顯著 ($t(18)=1.705$, $p=.102$)，組二、三的平均數差異也不顯著 ($t(18)=.582$, $p=.567$)，但組一與組三平均數差異顯著 ($t(18)=2.964$, $p=.008$)。請問在目前統計檢定不一致下，應如何下結論？為什麼？(二十分)

組別	個數	平均進食	變異數
1.控制組	10	2.7	4.0
2. A 廠出品含該化學成分 5 mg 藥物	10	10.5	16.7
3. B 廠出品含該化學成分 5 mg 藥物	10	13.4	9.0

四、政大心理系的蔣老師隨機抽取台灣心理系大學生，發現施測標準化的英文與統計能力測驗，兩者成績相關是 .8，但是在蔣老師所教的班上，相關卻只有 .3，請問可能原因為何。(二十分)

五、陳老師找了八位同學，訓練他們的表達能力，底下是八位同學訓練前後，在表達能力量表上的分數，分數越高表示表達能力越好。型一錯誤率設定在 .05，請幫陳老師檢定訓練效果，並下結論。(二十分)

前測	2	4	5	6	8	9	10	12
後測	3	5	7	8	8	10	12	13

備 考 試 題 隨 卷 繳 交

命 題 委 員 : (簽章) 98 年 6 月 29 日

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