UNIVERSITA’ DEGLI STUDI DI TRENTO

Prova di ammissione al corso di laurea in

SCIENZE E TECNICHE
DI PSICOLOGIA COGNITIVA

8 Aprile 2016

ANNO ACCADEMICO 2016/2017
01. Il glaucoma è una malattia:
   A) degli occhi
   B) della milza
   C) della bocca
   D) della pelle
   Risposta corretta: A

02. L'osso parietale si trova:
   A) nel cranio
   B) nel bacino
   C) nella spalla
   D) nel collo
   Risposta corretta: A

03. Come si chiamano le cellule del sistema immunitario?
   A) Linfociti
   B) Eritrociti
   C) Enzimi
   D) Lisosomi
   Risposta corretta: A

04. I neuroni che trasportano le informazioni dagli organi sensoriali al sistema nervoso centrale sono detti:
   A) afferenti
   B) motoneuroni
   C) colinergici
   D) presinaptici
   Risposta corretta: A

05. Il telencefalo:
   A) è la parte più sviluppata del cervello umano
   B) presenta due strutture principali: il talamo e l'ipotalamo
   C) presenta due strutture fondamentali: il ponte e il cervelletto
   D) è una porzione dell'encefalo a forma piramidale
   Risposta corretta: A

06. In una cellula umana, la duplicazione del DNA avviene:
   A) nel nucleo
   B) nel citoplasma
   C) nei ribosomi
   D) nell'apparato del Golgi
   Risposta corretta: A

07. Quante basi azotate sono necessarie per determinare un singolo amminoacido?
   A) 3
   B) 4
   C) 5
   D) 6
   Risposta corretta: A

08. Nel corpo umano la produzione di globuli rossi avviene:
   A) nelle ossa
   B) nella pelle
   C) nei muscoli
   D) nel cervello
09. Quali tra le seguenti è una caratteristica esclusiva delle cellule eucariotiche?
   A) Sistema di endomembrane
   B) Ribosomi
   C) Materiale genetico
   D) Membrana cellulare
   Risposta corretta: A

10. Qual è la proteina più abbondante presente nei capelli e nelle unghie?
   A) Cheratina
   B) Albumina
   C) Tropomiosina
   D) Citosina
   Risposta corretta: A

11. La colonna vertebrale umana è costituita da:
   A) 33-34 vertebre
   B) 23-24 vertebre
   C) 43-44 vertebre
   D) Nessuna delle alternative proposte è corretta
   Risposta corretta: A

12. Qual è la ghiandola più grande e voluminosa del corpo umano?
   A) Fegato
   B) Intestino
   C) Tiroide
   D) Pancreas
   Risposta corretta: A

13. Qual è la zona del cervello più coinvolta nel coordinamento motorio?
   A) Cervelletto
   B) Ipotalamo
   C) Amigdala
   D) Lobo occipitale
   Risposta corretta: A

14. Quale delle seguenti vitamine è indispensabile per irrobustire le ossa?
   A) Vitamina D
   B) Vitamina A
   C) Vitamina C
   D) Vitamina E
   Risposta corretta: A

15. Quali delle seguenti affermazioni riguardanti l’ossitocina NON è corretta?
   A) Viene prodotta dall’adenoipofisi
   B) È un ormone peptidico
   C) È responsabile del comportamento materno
   D) La sua azione principale è quella di stimolare le contrazioni della muscolatura liscia dell’utero
   Risposta corretta: A

INGLESE [ 16-30 ]

COMPRENSIONE DEL TESTO

Leggete con attenzione il seguente brano quindi rispondete ai prossimi 15 quesiti. Fra questi, alcuni si riferiscono alle parole mancanti - indicate nel testo con i numeri da I a VII - altri riguardano il suo contenuto.
Twins reunited after 78 years

Last April, Elizabeth, a 78-year-old from Albany, in the US state of Oregon, was shuffling through her mail when she [I] a letter from Aldershot, UK - the town where she was born. "I am writing to you because I am searching for a family connection," the letter began. Elizabeth knew exactly who this was, and minutes later she was on the phone to the UK. On the other end of the line was Ann, her long-lost sister. Over the years, Elizabeth had made some attempts to trace her sister but without success. It seemed an impossible task. "I thought - being adopted, she could be anywhere in the world," Elizabeth says. "It was amazing to me that she was still in our home town."

Ann and Elizabeth were born in Aldershot, Hampshire in 1936. Their unmarried mother, Alice Lamb, was in service as a domestic cook. Their father was in the army - Aldershot has had a military base [II] 1854 - but he never met his daughters. So Alice chose to put the girls up for adoption to avoid being ostracised for having illegitimate children. [III] Elizabeth's curvature of the spine made her 'unadoptable' in the 1930s. Ann was adopted by a family from Aldershot, while Alice cared for Elizabeth herself. Later in life, Elizabeth married an American man, and moved to Portland, in the US state of Oregon.

While Elizabeth has always known she had a long-lost sister, Ann made the discovery after she scoured through her family history with the help of her youngest daughter Samantha. After a lengthy investigation into Ann's past, last year Samantha discovered her mother had a sister in the US. "We've found your sister but there's a bonus," Ann recalls Samantha telling her, who then revealed: "She's your twin sister." Samantha remembers being a bit apprehensive about [IV] her mother the news, because Ann was the only one to have been given up for adoption. But she needn't have worried. "She was overjoyed," says Samantha.

On 1 May 2014, a year after that first conversation and 78 years after they were separated, Ann and Elizabeth were reunited in Fullerton, near Los Angeles. They [V] to the city by Dr Nancy Segal, a psychologist who has been researching twins for more than two decades. She will be studying the women to see how their circumstances and the DNA they inherited had an effect on their personalities. "Fascinating work on separated twins shows that there are twins growing up in totally different families, sometimes even totally different cultures, and yet they bring with [VI] similar types of attitudes - in politics, religion, social behaviour," says Segal. "We want to get a comprehensive overview of their lives, their abilities, their interests, and put it all together as an important case study, because this is really the world's longest separated pair of twins."

After the two days of interviews and tests, the twins will go back to Elizabeth's home in Oregon where she is throwing a party for Ann, her daughter Samantha - and 80 of her closest friends. "I feel like I've known Liz all my life now," Ann says. The Guinness Book of World Records has confirmed that 78 years is the longest time twin siblings have spent apart [VII] again.

Adapted from www.independent.co.uk (May 2014)

16. With Ann's letter, Elizabeth discovered that
A) Ann lived in Aldershot.
B) Ann had been adopted.
C) her father had been in the army.
D) her mother's name was Alice.
Risposta corretta: A

17. Before receiving Ann's letter, Elizabeth
A) had tried to find her sister.
B) had already found her sister.
C) knew where Ann was living.
D) didn't know that Ann had been adopted.
Risposta corretta: A

18. Elizabeth was not adopted because
A) she had a physical disorder.
B) her mother had given only Ann up for adoption.
C) she went to live with her father.
D) she moved to the US.
Risposta corretta: A

19. Ann discovered she had a sister
A) thanks to her daughter's help.
B) on 1 May 2014.
C) thanks to Dr Segal's help.
D) because her adoptive mother told her about Elizabeth.
Risposta corretta: A

20. In the passage, what does overjoyed mean?
A) extremely happy.
21. Dr Segal is particularly interested in this case because
   A) Elizabeth and Ann are the longest separated pair of twins in the world.
   B) only one twin was adopted.
   C) she wants to find out what their political views are.
   D) she wants to study genetically transmitted disorders.

Risposta corretta: A

22. According to the psychologist,
   A) twins growing up in different environments share similar ideas.
   B) Elizabeth and Ann share the same religious beliefs.
   C) twins growing up in different cultures never have similar attitudes.
   D) DNA is the only factor to determine twins' behaviour.

Risposta corretta: A

23. After meeting Dr Segal, Elizabeth and Ann
   A) are going to celebrate together.
   B) will go on a holiday.
   C) are moving together to Aldershot.
   D) will take a DNA test.

Risposta corretta: A

24. ... when she [ I ] a letter from Aldershot, UK.
   Choose the correct word or words to complete the sentence:
   A) saw
   B) looked
   C) watched
   D) said

Risposta corretta: A

25. Aldershot has had a military base [ II ] 1854.
   Choose the correct word or words to complete the sentence:
   A) since
   B) for
   C) from
   D) afterwards

Risposta corretta: A

26. [ III ] Elizabeth's curvature of the spine made her 'unadoptable'.
   Choose the correct word or words to complete the sentence:
   A) However,
   B) Because of,
   C) So,
   D) In spite of,

Risposta corretta: A

27. ... a bit apprehensive about [ IV ] her mother the news...
   Choose the correct word or words to complete the sentence:
   A) telling
   B) saying
   C) tell
   D) give

Risposta corretta: A
28. They [ V ] to the city by Dr Nancy Segal.
Choose the correct word or words to complete the sentence:

A) were invited 
B) had invited 
C) were have invited 
D) were inviting 

Risposta corretta: A

29. ... they bring with [ VI ] similar types of attitudes...
Choose the correct word or words to complete the sentence:

A) them 
B) their 
C) they 
D) theirs

Risposta corretta: A

30. ... the longest time twin siblings have spent apart [ VII ] again.
Choose the correct word or words to complete the sentence:

A) before meeting 
B) before to meet 
C) before meet 
D) before to meeting 

Risposta corretta: A

Rispondete alla successiva domanda 31 SOLO se espressamente indicato dalla Commissione.

DOMANDA DI RISERVA [ 31 ]

31. La bile viene secréta:

A) dal fegato 
B) dalla cistifellea 
C) dal pancreas 
D) dallo stomaco 

Risposta corretta: A