Prova di ammissione al corso di laurea in
SCIENZE E TECNICHE DI
PSICOLOGIA COGNITIVA
Anno accademico 2014/2015
01. L’osmosi è:
A) Lo spostamento di acqua attraverso una membrana semipermeabile secondo gradiente di concentrazione
B) Lo spostamento di ossigeno molecolare attraverso una membrana semipermeabile secondo gradiente di concentrazione
C) Lo spostamento di ioni attraverso una membrana semipermeabile secondo gradiente di concentrazione
D) Lo spostamento di sali attraverso una membrana semipermeabile secondo gradiente di concentrazione
Risposta corretta: A

02. Il secreto di ghiandole esocrine si riversa:
A) Nei dotti escretori annessi
B) Nella circolazione sanguigna tramite i capillari
C) Negli spazi interstiziali degli adenomeri
D) Nei capillari se il secreto è ormonale, nei dotti escretori se il secreto è enzimatico
Risposta corretta: A

03. Cosa sono gli alleli?
A) Differenti versioni di uno stesso gene
B) Una classe di cofattori inorganici
C) Gli unici geni necessari per determinare un fenotipo
D) Coppie di cromosomi omologhi
Risposta corretta: A

04. Quale di questi fattori NON è alla base dell'evoluzione delle specie viventi?
A) La riproduzione asessuata
B) Le mutazioni casuali
C) La generazione di prole fertile
D) Gli eventi di crossing-over
Risposta corretta: A

05. La guaina mielinica permette:
A) Una più rapida trasmissione dell'impulso elettrico nel neurone
B) Il contenimento dei fasci di neuroni all'interno dei nervi
C) L'assorbimento di sostanze nutritizie da parte di cellule della mucosa intestinale
D) Una resistenza maggiore delle cellule a stress meccanici
Risposta corretta: A

06. L’RNA messaggero ha solitamente una struttura:
A) A singolo filamento
B) A doppia elica destrorsa
C) A doppia elica sinistrorsa
D) A doppio filamento lineare
Risposta corretta: A

07. La respirazione aerobica è caratteristica degli organismi che necessitano di:
A) Ossigeno
B) Azoto
C) Anidride carbonica
D) Acqua
Risposta corretta: A

08. Il nome scientifico di un organismo è composto da due termini. Quali informazioni riguardanti la sua classificazione forniscono?
A) Il genere e la specie
B) L'ordine e la famiglia
C) La famiglia e la specie
D) La famiglia e il genere
Risposta corretta: A

09. Gli anticorpi sono:
A) Proteine del siero del sangue
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B) Proteine di membrana degli eritrociti
C) Cellule del sistema immunitario
D) Molecole estranee che causano l’attivazione delle risposte immunitarie

Risposta corretta: A

10. L’insulina è:
   A) Un ormone proteico che regola il livello di glucosio nel sangue
   B) Un ormone steroideo che regola la fluidità delle membrane cellulari
   C) Un farmaco di origine sintetica
   D) Un ormone proteico che regola l’attività degli enzimi pancreatici

Risposta corretta: A

11. Il potenziale d’azione è:
   A) La variazione del potenziale di membrana dei neuroni che genera l’impulso nervoso
   B) La differenza di concentrazione di soluti che genera il movimento di acqua
   C) Il momento di contrazione dei ventricoli che immette il sangue nella piccola e grande circolazione
   D) La traspirazione di acqua dalle foglie di un pianta che induce il richiamo di acqua dalle radici e quindi l’assorbonimento di questa dal terreno

Risposta corretta: A

12. L’amido è un polimero del:
   A) Glucosio
   B) Fruttosio
   C) Ribosio
   D) Galattosio

Risposta corretta: A

13. La riproduzione asessuata NON permette:
   A) Nuove combinazioni del materiale genetico parentale
   B) La fertilità della discendenza
   C) Uno sviluppo corretto di buona parte della discendenza
   D) La generazione di una discendenza con un numero di cromosomi omologhi sempre uguale a quello parentale

Risposta corretta: A

14. A quale ordine appartiene la specie homo sapiens?
   A) Primati
   B) Ungulati
   C) Mammiferi
   D) Onnivori

Risposta corretta: A

15. Se un individuo di gruppo sanguigno 0 si accoppia con un individuo di gruppo sanguigno AB, la probabilities di avere un/a figlio/a di gruppo AB sarà:
   A) Nulla
   B) 25%
   C) 50%
   D) 100%

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.

When I was in primary school, I really enjoyed lying. Not the white lies you tell your mother when you ate biscuits that you were not supposed to. I am talking about the elaborate lies you tell friends to make yourself appear to be better than you are. I remember my friends in primary three that my father was the President of Coca Cola. I remember my friends in primary five thought that I had gone deaf in one ear. I really relished the whole situation. As I grew older, my lying continued. I enjoyed people's reactions to my seemingly amazing life. When I was 15 that all changed. I met someone I really looked up to (he was 17). He became a mentor for me as I began my search into the astral world. He is the one who put me on the path of honesty and integrity. And he did it by hurting me that I changed instantly. In my usual fashion, I told him lies just as I had been telling other people. I made up far-fetched stories to get him to be
more interested in me because I was not sure the truth would be enough to make him want to continue working with me. But he knew me so well, probably I knew myself. One day he said to me: "I can't talk to you on the phone any more because I can't see your eyes and so I'm not sure when you're lying to me." That really shocked me. One, because I did not know he knew I had been lying to him sometimes, and two, because he was willing to end our friendship over those lies. I vowed at that moment no more lying to him! It was a hard transition for me to make because I was used to exaggerating stories and experiences to get attention. But for him, and for his wise counsel, I made a pact with myself never to tell even one single white lie to him again. In time, his trust in me was rebuilt and we enjoyed a great friendship and relationship. That's how I learned the value of honesty. I decided that I the truth, that the truth was powerful and strong and that lies merely created a false foundation that could crumble at the slightest poking. I realized that I felt more powerful when I told the truth. I felt as if I was helping to build reality instead of creating a false Matrix-like reality. As Merlin said to Arthur in the film Excalibur, "When a man lies, he murders some part of the world." It is true. Every lie you tell alters the universe and makes it unreal. In my 20s, I had a friend who was a pathological liar. Her life was based on lies and the elaborateness of her lies would put my early days to shame. We discussed honesty a lot, and I told her that I could not accept that she was telling me the truth since she told me so often of the lies she was telling other people. In a way, I did to her what my mentor had done to me. I told her that I could not be her friend unless I knew I could trust her. She asked me how to be honest all the time. My answer was simple: do things you will have to lie about later. If you have to lie, you should not be doing them. After all, if you feel good about what you are doing, why would you lie about it? Do we not lie when we are ashamed of who we are or what we have done? Make your life something you do not need to lie about. Value truth and honesty. Decide from this day forward that you will be completely honest and truthful in all your dealings (with others and yourself). Imagine what our world would be like if no one lied. Help create that world by honouring the truth.

16. What is the main point in the text?
   A) Eventually the narrator actively practised what was learnt from previous experiences
   B) Lying pays
   C) The narrator's mentor sets out to teach everyone
   D) The future friend was a liar just like the main character

Risposta corretta: A

17. In the passage what does “far-fetched” mean?
   A) Unlikely
   B) Improbably
   C) Understated
   D) Captivating

Risposta corretta: A

18. The text demonstrates that the central character's teenage friend
   A) Depended on the sense of sight in analysis
   B) Forced the same character to make a pact
   C) Did not like the same character's telephone manner
   D) Was worried about his friend's hearing

Risposta corretta: A

19. Later in life the narrator
   A) Understood her dishonesty from what she told others
   B) Uses astral knowledge to put the friend on the right path
   C) Quotes the film “Excalibur” to convert her
   D) Lost all trust in this liar

Risposta corretta: A

20. According to the passage
   A) Basically on two counts it was cruel to be kind
   B) Two individuals on two occasions set out to save a friendship
   C) History does not repeat itself
   D) If you want to make friends it is always necessary to tell the truth

Risposta corretta: A

21. The passage demonstrates that
   A) The case of adult lying puts the previous case in perspective
   B) Once a liar, always a liar
   C) The adult woman was better at lying than the narrator
   D) Lying depends on the example given by others

Risposta corretta: A
22. In the passage “to relish” means
A) To take pleasure in
B) To invent
C) To believe in
D) To look forward to

Risposta corretta: A

23. Which is accurate in reference to the text?
A) The central character ends up quite didactic
B) The astral mentor wanted to improve everybody
C) Trust is the essential ingredient of friendship
D) Primary school should be the origin of all truth

Risposta corretta: A

24. When you ate biscuits that you were not supposed [I]. Which is the correct word or words for the space from (A) to (D)?
A) to
B) of
C) without
D) with

Risposta corretta: A

25. I remember [II] my friends. Which is the correct word or words for the space from (A) to (D)?
A) convincing
B) persuades
C) to have persuaded
D) to convince

Risposta corretta: A

26. And he did it by hurting me [III] that I changed instantly. Which is the correct word or words for the space from (A) to (D)?
A) so badly
B) too much
C) very much
D) such lot

Risposta corretta: A

27. But he knew me so well, probably [IV] I knew myself. Which is the correct word or words for the space from (A) to (D)?
A) better than
B) as well that
C) not worse as
D) without as

Risposta corretta: A

28. I decided that I [V] the truth. Which is the correct word or words for the space from (A) to (D)?
A) would honour
B) would have honour
C) will have honoured
D) would have honoured

Risposta corretta: A

29. We discussed [VI] honesty a lot. Which is the correct solution for the space from (A) to (D)?
A) [ ]
B) about
C) around
D) of

Risposta corretta: A

30. [VII] do things you will have to lie about later. Which is the correct word or words for the space from (A) to (D)?

Risposta corretta: A
DOMANDA DI RISERVA [ 31 ]

31. Quale delle seguenti affermazioni sugli ormoni **NON** è corretta?
   A) Abbassano la soglia di energia di attivazione delle reazioni metaboliche
   B) Sono secreti nella circolazione sanguigna
   C) Possono agire anche in prossimità delle cellule da cui vengono secreti
   D) Possono regolare l'attività di altri ormoni

Risposta corretta: A