



ENGINIUS
Formation & Recrutement

CONCOURS ENGINIUS 2018

Epreuve d'ANGLAIS

Informations sur l'épreuve

Barème :	40
Durée :	90min
Calculatrice autorisée :	Non

Merci de ne rien marquer sur le sujet.

Pour chaque question de l'épreuve, veuillez choisir la (les) bonne(s) réponse(s).

Répondez sur la grille de réponses séparée.

Uniquement les grilles de réponses correctement remplies seront corrigées.

PART ONE

Choose the correct answer and mark your answer on the answer sheet.

1. They are going _____ in America next month.
a) to be b) will be c) be d) being
2. This is the cinema _____ we saw the film.
a) when b) which c) that d) where
3. Have you ever _____ in a jazz band?
a) seen b) played c) listened d) wanted
4. I'm _____ when I'm with you.
a) happier b) happier than c) happier d) the happy
5. This is _____ than I thought.
a) bad b) badder c) worse d) worst
6. Can you tell me the way _____?
a) to the bank b) is the bank c) where is bank d) of the bank
7. Do you know what _____ ?
a) time is it b) time is c) time is now d) time it is
8. Were you _____ to open the door?
a) could b) can c) able d) possible
9. Everybody _____ wear a seat belt in the car.
a) must b) mustn't c) don't have to d) doesn't have to
10. Tom has lived in this town _____ three years.
a) since b) from c) after d) for
11. We _____ work in that factory.
a) use to b) was c) used to d) then
12. I think it _____ be sunny tomorrow.
a) will probably b) probably c) can d) will to
13. He _____ like his brother.
a) look b) isn't c) isn't look d) can look
14. _____ does your boyfriend look like?
a) How b) What c) Why d) Which
15. I've got _____ many problems.
a) too b) a c) enough d) really

PART TWO - Reading Comprehension

Read the following text and then answer the questions by choosing the right answer (a) (b) (c) or (d) and marking the correct answer on the answer sheet.

Earth's Temperatures

The world is now warmer than at almost any time since the end of the last ice age and, on present trends, will continue to reach a record high for the entire period since the dawn of civilisation, a study has found.

The study published in the journal Science, aims to give a global overview of Earth's temperatures over the past 11,300 years - a relatively balmy period known as the Holocene that began after the last major ice age ended and encompasses all of recorded human civilization.

Their data (compiled by studying such things as ice cores, fossils and ocean sediment) looked back over a much longer era than previous research, which went back 1,500 years.

Scientists say it is further evidence that modern-day global warming isn't natural, but the result of rising carbon dioxide emissions that have rapidly grown since the Industrial Revolution began roughly 250 years ago. Scientists say that if natural factors were still governing the climate, the Northern Hemisphere would probably be destined to freeze over again in several thousand years. Instead, scientists believe the enormous increase in greenhouse gases caused by industrialization will almost certainly prevent that.

Shaun Marcott, a geologist at Oregon State University, says "global temperatures are warmer than about 75 percent of anything we've seen over the last 11,000 years or so." The other way to look at that is, 25 percent of the time since the last ice age, it's been warmer than now.

It's taken just 100 years for the average temperature to change by 1.3 degrees, when it took 5,000 years to do that before. By the end of the century, climate warming models predict an additional increase of 2 to 11.5 degrees, due largely to carbon emissions, the study noted.

Now answer the questions below:

16. 'Dawn' in this text means:

- a. Heat
- b. Earth
- c. Beginning
- d. Sunrise

17. 'Balmy' means:

- a. Cold
- b. Cool
- c. Hot
- d. Warm

18. True or false: this study looks at a longer than usual time-period.

- a. False
- b. True

19. The Earth's temperature has increased quickly since:

- a. The Holocene
- b. 1,500 years ago
- c. The Northern Hemisphere
- d. The Industrial Revolution

20. 'Prevent' means:

- a. Encourage
- b. Stop
- c. Complete
- d. Slow

21. True or false: Scientist predict the earth will freeze over because of increased greenhouse gases.

- a. True
- b. False

22. True or false: The temperature will increase by 1.3 degrees in the next 100 years.

- a. True
- b. False

23. This article could be described as a ___ look at the future.

- a. Optimistic
- b. Pessimistic

PART THREE

Complete by choosing the right answer (a) (b) (c) or (d) and mark the correct answer on the answer sheet.

24. Electronics is the study and utilization of systems that function by guiding electron flow in _____ such as semiconductors.
 (a) contrivances (b) devices (c) pieces (d) servers
25. Designing and building electronic circuits to solve _____ problems is the mandate of electronics engineering.
 (a) parallel (b) practical (c) partial (d) production
26. Research into innovative semiconductor technology and applications is considered a _____ of physics.
 (a) branch (b) responsibility (c) segment (d) subsidiary
27. Electronic circuits are mainly used to control, process and distribute information, and for the _____ and distribution of electric power.
 (a) commutation (b) contamination (c) conversation (d) conversion
28. These two purposes rely on the creation and detection of electromagnetic _____ and electrical currents.
 (a) fields (b) floors (c) grounds (d) surfaces
29. The rapid modern advancement of electronics began in _____ with the introduction of the radio.
 (a) earnest (b) enthusiasm (c) secret (d) sincerity
30. There are three divisions to an electronics system, an example of which is a television _____.
 (a) box (b) case (c) kit (d) set
31. First, the input is a broadcast signal either received by its antenna or _____ in through a cable.
 (a) cued (b) fed (c) led (d) sped
32. Second, processing circuits inside the TV _____ the brightness, colour and audio data from this signal.
 (a) contract (b) detract (c) extract (d) retract
33. Third and last, its output apparatus, a cathode ray tube, changes the electronic signals into a _____ image on its screen.
 (a) vague (b) valuable (c) viable (d) visible

PART FOUR – Reading Comprehension

Computers and Girls

CNN San Francisco Reporter Don Knapp

The girls in this sixth grade class in East Palo Alto, California, all have the same access to computers as boys. But researchers say, by the time they get to high school, they are victims of what the researchers call a major new gender gap in technology.

Janice Weinman of the American Association of University Women says, "Girls tend to be less comfortable than boys with the computer. They use it more for word processing rather than for problem solving, rather than to discover new ways in which to understand information."

After re-examining a thousand studies, the American Association of University Women researchers found that girls make up only a small percentage of students in computer science classes. Girls consistently rate themselves significantly lower than boys in their ability and confidence in using computers. And they use computers less often than boys outside the classroom.

The instructor of this computer lab says he's already noticed some differences. Charles Cheadle of Cesar Chavez School says, "Boys are not so afraid they might do something that will harm the computer, whereas girls are afraid they might break it somehow."

Six years ago, the software company Purple Moon noticed that girls' computer usage was falling behind boys. Karen Gould says, "The number one reason girls told us they don't like computer games is not because they're too violent, or too competitive. Girls just said they're incredibly boring."

Purple Moon says it found what girls want, characters they can relate to and story lines relative to what's going on in their own lives. Karen Gould of Purple Moon Software says, "What we definitely found from girls is there is no intrinsic reason why they wouldn't want to play on a computer; it was just a content thing."

The sponsor of the study says it all boils down to this, the technology gender gap that separates the girls from the boys must be closed if women are to compete effectively with men in the 21st century.

34. A small percentage would be:
- 100%
 - 98%
 - 10%
 - 75%
35. Girls seem to find most of the software
- as too violent
 - boring
 - as too competitive
 - exciting
36. This year would be included in the 21st Century:
- 2003
 - 2103
 - 1998
 - 1921
37. By the time students are in high school,
- many boys have lost interest in computers
 - both boys and girls are very interested in computers
 - computer science classes are filled with girls
 - many girls have lost interest in computers
38. The research on girls and computers
- is based on a few articles.
 - presented by one person.
 - is based on thousands of studies.
 - has no facts to support it.
39. Computer software seems to be made to be
- more interesting to boys
 - more interesting to girls
 - equally interesting to girls and boys
 - interesting only to adults
40. The software company seems to think
- if girls had an equal chance at playing games, they would like computers.
 - if the software was more violent, girls would like it better.
 - if the software content was changed, girls would be more interested in computers.
 - if the characters were funny, girls would like them better.