

Session : Concours :

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| Signature des surveillants |
| |

Epreuve de :

Nom : Prénoms :

Institution d'origine :

| |
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| Total des doubles feuilles remises |
|1..... |

Identifiant :

| | | | | | | | |
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Série :

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NE RIEN ECRIRE
 DANS CETTE COLONNE

Concours Nationaux d'Entrée aux Cycles de Formation d'Ingénieurs

Session : ...Juin 2008..... Concours : Toutes options.....

Epreuve de : ANGLAIS (ANSWER SHEET).....

| |
|---------------------------------------|
| Total des doubles feuilles remises |
|1..... |

PART I :

I - _____ *B- Saving the genetic legacy of threatened plants* _____ (1 pt) _____

II - (4pts)

| | |
|-------------------------------------|--|
| Location | <i>Longyearbyen (Norway)</i> |
| Shape/design | <i>A cave-like structure with a tunnel-like entrance</i> |
| Depth at which the vault is located | <i>500 feet under the permafrost</i> |
| Purpose | <i>To store and protect samples of every type of seed from every</i> |

III - a = 2pts ; b= 3pts

- a) For plant seeds to be well preserved, they need to be both placed in suspended animation and stored at minus 20° Celsius
- b) To ensure that it is secure enough, the vault was designed to withstand bomb blasts and earthquakes. In addition, it is equipped with an automated digital monitoring system as well as a strict code entrance

IV - a) [False] *The Global Seed Vault is part of a broader effort to gather and systematize information about plants and their genes. (2pts)*

b) [False] *Scientists are searching the world for banana samples and are preserving their shoots in liquid nitrogen before they become extinct (2pts)*

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V - (2pts)

Global network of plant banks was created to preserve precious genetic resources and protect them from the threats facing them.

VI - (1pt)

3. *Terrorist acts* _____

VII - (3pts)

- a) *Climate change is expected to bring new plant pests into agricultural regions*
- b) *It is also expected to bring about new weather stresses (floods, droughts, typhoons, etc.)*

VIII - (2pts)

- a) *better technology to preserve plant genes*
- b) *The rising alarm about climate change and its impact on food production*

IX - (4pts)

- a) *creating a global network of plant banks*
- b) *banana samples*
- c) *global network*
- d) *plants like bananas and coconuts*

X - (4 pts)

1. *to withstand*
2. *amassing*
3. *traits*
4. *range*

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PART II :

1. (10 pts)

| | |
|---|-----------------|
| 1 | <i>Must</i> |
| 2 | <i>Moreover</i> |
| 3 | <i>Much</i> |
| 4 | <i>Thereby</i> |
| 5 | <i>On</i> |

| | |
|----|---------------------|
| 6 | <i>therefore</i> |
| 7 | <i>large enough</i> |
| 8 | <i>also</i> |
| 9 | <i>while</i> |
| 10 | <i>whose</i> |

2. (10 pts)

| | |
|---|--------------------------|
| 1 | <i>was experimenting</i> |
| 2 | <i>invented</i> |
| 3 | <i>won</i> |
| 4 | <i>has been able to</i> |
| 5 | <i>have created</i> |

| | |
|----|------------------------|
| 6 | <i>allows</i> |
| 7 | <i>will be able to</i> |
| 8 | <i>would be</i> |
| 9 | <i>needed</i> |
| 10 | <i>leading</i> |

3. (5 pts)

| | |
|---|--------------------|
| 1 | <i>achievement</i> |
| 2 | <i>prestigious</i> |

| | |
|---|----------------|
| 3 | <i>lasting</i> |
| 4 | <i>likely</i> |

| | |
|---|----------------|
| 5 | <i>compete</i> |
|---|----------------|

4. (5pts)

- In spite of the relentless efforts to find a cancer cure, no significant breakthroughs *have been made (by scientists)*
- There are many space-based pollution monitoring satellites
- Although most nations have attempted/ have made attempts to reduce GHG emissions, no tangible results have been achieved
- By 2015, it is likely that thousands of diagnostic procedures and treatments will be market-ready
- In no other field (*than genetics*) will you find a greater public interest

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PART III

A – Translation: (5pts)

Researchers are currently studying the seeds of rare plants and species which they had previously collected and stored in seed banks. This research work (These research works) will enable them to identify which of these plant have seeds capable of surviving for a long time and which (ones), on the other hand, have a shorter life span _____

B – Writing: (15 pts)

No standard answer

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