EPREUVE N°1

ANGLAIS

Artificial intelligence (AI) refers to computer systems capable of performing complex tasks such as reasoning, making decisions, or solving problems that, historically, only a human could do. AI is an umbrella term that encompasses a wide variety of technologies, including machine learning, visual perception and natural language processing.

Professor Arend Hintze of the University of Michigan has underlined the key AI systems in use: *ChatGPT* uses large language models to generate text in response to questions or comments posed to it. *Google Translate* applies deep learning algorithms to translate text from one language to another. *Netflix* operates with machine learning algorithms to create personalized recommendation engines for users, based on their previous viewing history. *Tesla* utilizes computer vision to power self-driving features on their cars.

AI is used in many areas of activity. In finance, it may analyse large amounts of data and detect patterns that signal fraudulent behaviour. In health, AI-powered robotics can support surgeries close to highly delicate organs or tissues, *to mitigate blood loss* or risk of infection. Besides, AI systems can predict enemy behaviour, anticipate vulnerabilities, weather and environmental conditions, and suggest alleviation plans. Another military AI application involves *leveraging* swarm intelligence for drone operations. This saves time and human resources, putting soldiers a step ahead of their targets, but as always requires humans to make the ultimate decision.

Basically, AI systems can receive and interact with inputs formatted as text, images, audio, and video together. This highlights a need for transparency around how AI models work and an understanding of the potential threats posed by bad actors. Whatsoever, 100% success rate with AI is impossible to achieve. Therefore, providing individuals with training is crucial to respond to social engineering attacks.

The use of AI has made tremendous leaps forward in both capability and availability. As the general public has familiarized with AI, it is critical for states, especially security services, to have access to the most advanced and tailored AI cyber security solutions in order to stay safe amid a constantly evolving landscape of AI-driven cyber security risks.

www.htp//Military Applications of AI in 2024- Sentient Digital, Inc.

I. **READING COMPREHENSION** **(8MARKS)**

A. Find in the text words corresponding to the following definitions in the table. The paragraphs of the words are indicated and an example is given. (02 marks).

DEFINITIONS	WORDS
Example: *A computer system performing tasks normally requiring human intelligence (Paragraph 1)*	*Artificial intelligence*
1. The fact of including or comprising something (Par.1)	…………………….
2. Something important, central or essential (Par. 2)	…………………….
3. A tendency, idea or representation of something (Par.3)	……………………..
4. Important, considerable, enormous, … (Par 5)	……………………..

B. Indicate the option a, b, c, or d, that best corresponds to ideas in the text. (02,5 marks)

5. In this text, the author is …
    a. insisting on AI advantages;   **c.** presenting types of AI;
    b. warning against AI's availability;   **d.** explaining what AI is about.

6. We understand from the text that…
    a. Netflix is for film viewing;   **c.** AI is not limited to ChatGPT;
    b. Tesla is a famous car brand;   **d**. Google is a popular search engine.

7. According to the text, interacting with an AI system requires…
    a. speech and writing;   **c.** All of a. and b.;
    b. voice and visuals;   **d.** None of a., b., nor c.

8. In line 13 of the text, the phrase '*to mitigate blood loss*' means …
    a. to replace lost blood;   **c.** to filter blood;
    b. to reduce blood loss;   **d.** neither a, b, nor c.

9. The term '*leveraging*' in line 16 is closer in meaning to…
    a. taking advantage of AI;   **c.** relying on drones;
    b. taking advantage of drones;   **d.** relying on humans.

C. Match paragraphs numbers with the ideas in the text they correspond to. An example is Provided. (01,5marks)

IDEAS	PARAGRAPHS NUMBERS
Example: *Meaning of AI*	*1*
10. We can say that computers are now capable of intelligence.	
11. What can actually be done with AI is growing and growing.	
12. More and more people have access to AI	

D. Indicate if the statements are True or False, and justify with reference to the text. (**02 marks marks**)

13. AI systems hardly needs human intervention in the performance of its tasks.   TRUE / FALSE
………
………
14. Despite AI's amazing performances, it still remains imperfect.   TRUE / FALSE
………
………

II. LINGUISTIC COMPETENCE (07 MARKS)

E. Put the verbs between parentheses in the right tense or form. (2 marks)

15. When she heard that her son had been arrested for robbery, the lady _____ (**to faint**).
16. They have been waiting for the bus for hours, but it _____ (**not to arrive**) yet.

CONCOURS D'ENTRÉE DANS LES GRANDES
ÉCOLES MILITAIRES ÉTRANGÈRES

Session 2025
Series L
Coef : 5
Durée : 3 heures

17. Something is wrong with this phone; the screen _____ (**to freeze**) anytime I answer calls.
18. With the advent of robots, many workers run the risk of _____ (**to become**) redundant.

F. Complete with the option that would make the sentence correct and meaningful. (**3marks**)

19. African leaders need to be aware _____ the threats and opportunities inherent in their
predominantly young populations.
    a. at   **b**. about   **c**. of   **d**. on
20. Less guests than expected attended the wedding; there was consequently _____ food left.
    a. many   **b**. much   **c**. little   **d**. few
21. _____ you have high speed connection, you cannot use comfortably internet at home.
    a. Because   **b**. Since   **c**. Unless   **d**. If
22. I know the guy _____ bank account has been hacked.
    a. whom   **b**. who   **c**. which   **d**. whose
23. The Students' Government executive wish to meet the principal within the week, _____?
    a. doesn't it?   **b**. doesn't they?   **c**. don't they?   **d**. wish not they?
24. Judging by her accent, the new teacher must be _____ Nigerian ___ Ghanaian.
    a. either / or   **b**. neither / nor   **c**. from / or   **d**. of / or

**G. Transform the words between parentheses in a way that makes the sentence both correct and
meaningful. An example is provided. (2marks)**
    Example: *This student's <u>speech</u> is much better than his writing. (speak)*

25. Going to Europe illegally by traditional fishing boats is surely a _____ enterprise. (**risk**)
26. Being mentally _____ is important when taking an exam. (**strength**)
27. _____ up and down the screen is a favourite game for many adolescents. (**To scroll**)
28. People using skin lightening creams are _____ to suffer skin problems. (**like**)

III. WRITING   **(5 MARKS)**

NB: For the writing section, the candidate must do ONLY subsection H or I below.

    H. Choose only ONE topic out of the three, and produce a text of between 150 to 200 words).

Topic 1: In class, you have been set into groups to debate on the formidable spread of information
and communication technologies. Write an essay in which you talk about one of these technology
applications, insisting on its uses, advantages and disadvantages.

Topic 2: You have discovered that AI can help you greatly with assignments and homework. Write a
letter to a friend to explain how one can use this formidable computer technology tool with benefit.

Topic 3: You are discussing with a friend or friends on the poor technology equipment in your school.
Write down your conversation.

    I.   **Sum up the reading comprehension text above in not more than 115 words (one third of
        its original length) and give a title to your summarized text.**