**COMPLETE THE FORM BELOW**

**NUME ȘI PRENUME (CU INIȚIALA / INIȚIALELE TATĂLUI, AȘA CUM SE REGĂSESC ÎN CATALOG):**

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| Rusu M. Raul-Mihai |

**FACULTATEA DE:**

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| --- |
| Matematică-Informatică |

**SPECIALIZAREA:**

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| --- |
| Informatică |

**ANUL DE STUDIU: LINIA DE STUDIU: GRUPA:**

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| **2** |  | Engleza |  | **926** |

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**TO BE COMPLETED BY THE EXAMINER**

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| **SCORE** |  | **CFR LEVEL OF PROFICIENCY** |
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**LISTENING COMPREHENSION**

*Graduation Test of English*

*May - June 2020*

**INSTRUCTIONS:**

**1. Download the document onto your own PC. Do not change the format of the document.**

**2. Write your answers in the boxes provided.**

**3. Work individually. Use your own words to write your answers. Do not share your answers with any other student. Papers with identical or very similar answers will be invalidated regardless of who copied from whom.** **The same happens if you copy paste answers from the Internet.**

**4. Once you have completed all the tasks, name the document as follows:** Nume Prenume Grupa Listening (*for example* Suciu Valeriu 923 Listening) **and upload it to your Google Drive Folder** (**create a folder** entitled according to the following format: Grupa English Examination Nume Prenume *for example* 923 English Examination Suciu Valeriu and **share** **the folder via email using the following email address:** [english.exam.info@gmail.com](mailto:english.exam.info@gmail.com)).[[1]](#footnote-0)

**5. Upload your document before the deadline expires (May 31, 2020, 23.59) and do not modify your document after the deadline.**

**The test starts on the next page**

***Exercise 1***

**Listen to an interview (**[**Track 1**](https://drive.google.com/open?id=1HzN-7xxNia8clwwH9B0vWjdbQR90Nl6X)**) with Michael Emsley, one of the exhibitors at an exhibition of virtual reality at Olympia in London. As you listen, answer the following questions in your own words about the interview. (3p)**

**a.** Why do people expect far more from VR than it can give them?

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| People expect far more from VR because of the way the media is presenting the technology. |

**b.** How does Michael Emsley think VR should be seen?

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| He thinks that VR should be seen as a means not an end. Also, he says that it should be seen as an enabling technology. |

**c.** What are the two examples of the potential applications mentioned?

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| Two potential applications of VR are recreating crime scenes for the police and curing people with physical disabilities. |

**d.** What problems will VR developers have if the technology does not produce results, according to Emsley?

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| VR developers will have problems with funds because the industry will stop investing in VR. |

**e.** How does the best VR system compare with human vision?

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| The best VR system can produce only a fraction of the details that the human vision can catch. |

**f.** Why are there three electromagnetic coils in the headset?

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| The 3 coils in the headset are used to track 3 type of movements: up/down, left/right, forward/backward |

***Exercise 2***

**Listen to a general manager talking to an IT officer about replacing the company’s enterprise social networking system (**[**Track 2**](https://drive.google.com/open?id=1ugIUHlUA0nRiaLEQTnjsUljjKovbpd3Z)**). You have been asked to use the information from the recording to write 2 paragraphs in which you inform developers on: (1) the features your company currently has and the problems with them; and (2) the new features that need to be added to the system. Write full sentences and make sure developers understand the requirements for the new system. (3 p)**

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| **(1)**  The current social networking system has an integrated chat and forums, also it has a document manager but it is not that easy to use. The actual system has some security but it is pretty basic. |

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| **(2)**  In the new system we would like to have a document manager in which we can write comments next to documents and all the people that will access that document will be able to see all the comments on that document. The system needs to be accessible remotely from anywhere on pc and phone, so we also need a client application for ios and android. The security needs to be improved and the new system and the new system has to be able to understand vocal commands and execute them. |

***Exercise 3* (4p)**

**Watch Stuart Russel’s TedTalk entitled “3 Principles of Creating Safer AI” available** [**here**](https://www.ted.com/talks/stuart_russell_3_principles_for_creating_safer_ai?language=en)**. While watching, makes notes on the following:**

* What possible threats and problems does Stuart Russel discuss in relation to creating superintelligent machines?
* Which three principles does Stuart Russel recommend to create intelligent but safe robots?
* Why are these principles crucial to ensure that we create safe robots?

**Afterwards, using your notes, write a short article of no more than 300 words with the same title *“3 Principles of Creating Safer AI”.***

**Write your article in the box below:**

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| **3 Principles of Creating Safer AI**  With the renaissance of artificial intelligence in the past few years a lot of questions and fears are beginning to creep in people's minds. There is no doubt that once we create a machine that is more intelligent than us our lives will change forever. We can't be sure if it will be the greatest invention of mankind or the one that will destroy it, but what we can be sure is that the researchers are not trying to create any kind of superintelligent AI, they are trying to create one that is safe and will benefit us all.  In Stuart Russel’s TedTalk he talks about 3 principles for creating a safe AI. The first one talks about the objective of the robot. He said that a robot should be selfless and only try to achieve our objectives. This sounds exceptionally good on paper, but even a simple task can be misinterpreted easily. Stuart Russel has a very funny exemplification of this. If you ask a robot to fetch you a coffee it can go on rampage just to get you that coffee. The second principle tries to solve this problem, and it can be boiled down to a single word humility. The robot needs to be initially uncertain about what the human objectives are in order to get the bigger picture and not get tangled in one single task. Good, now we have a robot that wants to help us but it hesitates to do what we ask. Doesn't sound perfect, something is missing, but it is not that big of a threat. The piece that is missing is learning about humans. And this is the third principle, the AI should cover that initial uncertainty by learning about humans, by observing human behavior. An important idea is the robot will not behave like humans, it will try to understand the motivations behind those behaviors and try to understand what we really want.  In my opinion the creation of a superintelligent machine will be the greatest invention, i would like to say of our lives but i think it will happen much later in the future. |
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**Evaluation Grid and Scoring**

**Exercise 1**

0.5p x 6 items = 3p

Ability to extract salient points = 0.2p

Relevance = 0.1p

Ability to identify and use specialised vocabulary = 0.1p

Grammatical accuracy = 0.1p

**Exercise 2**

Ability to identify detailed information = 1p

Ability to identify and use relevant vocabulary = 1p

Transfer of knowledge = 1p

**Exercise 3**

Ability to understand opinion and implied meaning = 1p

Transfer of knowledge / information = 0.5p

Ability to identify and use specialised vocabulary = 0.5p

Relevance = 0.5p

Grammatical accuracy = 0.5p

Coherence, cohesion, structure = 1p

1. You can find documents containing step-by-step instructions on:

   * Creating the exam folder [here](https://www.canva.com/design/DAD8N7ff0vU/DPm3riqc46RAmJpaikzHeA/view?utm_content=DAD8N7ff0vU&utm_campaign=designshare&utm_medium=link&utm_source=sharebutton).
   * Downloading and uploading the exam document [here](https://www.canva.com/design/DAD8QlTdQPI/MTWPPcvn6dFZv_prM81bFg/view?utm_content=DAD8QlTdQPI&utm_campaign=designshare&utm_medium=link&utm_source=sharebutton).

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