

STUDENT (DNI + name): _____ SCORE: _____

Please answer ALL questions in the exam sheet --- each numbered item amounts to 0,05 points.

PART 1: VOCABULARY

I. Which words or expressions are preferred in each case for academic style?

No.	Option a	Option b
1	The results confirm that ...	The results suggest that...
2	From my point of view, ...	According to the scientific community, ...
3	A considerable amount of, a wide range of...	A lot of, lots of
4	Issues, aspects	Problems, things
5	Ineffective, unexpected	Not effective, not expected
6	I currently use 5G in...	5G is currently used in...
7	The application looks into / points at...	The application examines / indicates...

II. What do these concepts/acronyms mean?

8. Prosumers

- a) consumers and users b) producers and consumers c) users, producers, and consumers

9. IES

- a) Internet enhanced services b) Internet enabled services c) Internet electronic services

III. Complete the text with a suitable term from the box; you are given more possibilities than the available gaps; if it is a verb, put it in the right tense (only that way the answer will be valid):

exploit	anchor	likely	accessible	security	safe	enhanced	prioritized
implement	accessibility	anchorage	approve	secure	safety	compliant	compliance

Tracing apps should be (10) _____ in close coordination with, and (11) _____ by, public health authorities. They should aim to (12) _____ the latest (13) privacy-_____ technological solutions. They should reflect best practice on (14) _____ and (15) _____, that is, they must be (16) _____ and (17) _____.

PART 2: USE OF ENGLISH

I. Complete the table with the correct connector in each case:

- a) since b) while c) by means of d) such as e) moreover f) so that g) hence h) in short

No.	Item	Answer
18 an antenna works on high frequency signals, the impedance of the transmission lines also becomes important. (reason)	
19 to achieve maximum power, the impedance of an antenna should match to the impedance of the source and transmission line as well. (consequence)	
20	The two servo motors are controlled an android Bluetooth application. (how to do it)	
21	Power is transmitted through electromagnetic radiation ways, microwaves or laser beams. (examples)	
22	This way, the impedance of the wave guide is matched with the impedance of the free space, the EM waves can be received properly. (purpose, finality)	
23 , the old electric field does not get adjusted to the new field very well. (summarize)	
24	There are four components in the circuit. , the circuit is energized by a power supply. (addition)	
25 Chinese smart city apps are efficient at data collection, they present some privacy drawbacks. (contrast)	

II. Introduce the right preposition:

26. The simple arrangement is known a dipole antenna

- a) for b) like c) as d) by

27. Waves travel the speed of light
 a) by b) at c) through d) across
28. Microwave currents can flow a thick layer of a cable.
 a) at b) on c) with d) through
29. The electromagnetic waves consist the entire range of electromagnetic radiation.
 a) of b) on c) as d) with
30. This project deals a device to control a missile launcher model.
 a) of b) on c) as d) with

III. Say which is the correct paraphrasing of the following compounds:

31. Linked data management
 a) management of linked data b) data managed through link c) linking of data management
32. Social data mining
 a) socializing of mining data b) mining of social data c) data mining of social

PART 3: PRONUNCIATION

I. Stress. Mark the stressed syllable:

33. Components a) com b) po c) nents
34. Sustainable a) sus b) tai c) na d) ble
35. Interference a) in b) ter c) fer d) ence

II. Plural noun / third person singular verb ending. Say if the word ending is: a) /s/ b) /z/ c) /iz/
 When two charges(36) meet at the central point, the deformed line also meets there. After that, it detaches(37) and radiates(38).

III. Say if the “-ion” ending of these nouns is: a) /jən/ b) /tiən/ c) /ʃiən/

39. connection 40. attenuation

PART 4: CONTENT (choose the correct answer):

41. In academic writing... a) passive forms should be avoided b) personal opinion is welcome
 c) long, subordinated sentences are welcome d) cohesion through connectors is welcome
42. English vowel sounds are all... a) longer than the Spanish ones b) shorter than the Spanish ones
 c) either longer or shorter than the Spanish ones d) as long and as short as the Spanish ones
43. A non-native speaker of English must... a) achieve a sufficient level of understandability
 b) learn to pronounce like a native speaker c) speak with a British accent d) speak with an American accent
44. In academic presentations, a non-native speaker of English must be especially careful with the pronunciation of...
 a) word endings b) the “th” sound in words like *these, the, that* c) keywords d) all the previous answers are correct
45. James Clerk Maxwell... a) continued Hertz’s work on EM radiation b) corrected Hertz’s work on EM radiation
 c) laid the foundations for Hertz’s work on EM radiation d) was wrong in his four mathematical equations
46. Some of the concepts/experiments mentioned in the EM radiation video are... a) the oscillating electric dipole
 b) impedance matching c) non-ionizing radiation d) answers a and b are correct
47. Concerning Smart Cities projects, some EU countries (Spain, UK, Italy, Slovenia and Germany) are developing...
 a) AI tools for establishing patterns in people’s mobility b) a city-wide ecosystem of urban apps
 c) digital policies for SMEs d) a digital prevention system realized by apps
48. Figures in academic writing texts must be... a) numbered and given a short title or description below each one
 b) inserted in the text without further information c) referred to after the title d) referred to before the end of the text
49. The concepts of speed and velocity... a) are respectively a scalar value and a vector
 b) both refer to the rate and direction of an object’s movement, that is, they are interchangeable
 c) differ because speed refers to the rate and direction of an object’s movement, whereas velocity refers only to the time rate at which an object is moving along a path
50. Voiced sounds can be identified... a) when the vocal cords do not vibrate b) when the vocal cords vibrate
 c) only in vowels d) only in consonants