

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 academic and professional terms correspond to each field?**

a) soft skills b) responsibilities c) facilities d) courses e) majors f) job titles g) Higher Education levels

No.	Item	Answer
1	Systems Engineering; Telematics.	
2	Designing and testing sensor devices; dealing with customers.	
3	Technical English; Microwaves; Physics.	
4	Senior Engineer; Network developer.	
5	IT-literacy; leadership; teamwork ability.	
6	Lab; classrooms; library; sport fields.	
7	Undergraduate; postgraduate; Ph.D.	

II. Which is the name of the concept that is described in each question?

8. When a prototype is technically likely to be made, that is, there are no physical obstacles for its design and fabrication (an adjective): a) feasibility b) feasible c) viability d) viable

9. When something can be designed from the point of view of the economic investment (a noun): a) feasibility b) feasible c) viability d) viable

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):

patchwork	coverage	pioneer	core	proportionate	capable	enable	launch
throw	coverness	hub	device	patchy	provide	disadvantage	challenge

That company is (10) _____ mobile technology in Africa. As a regional operator, it started to (11) _____ 5G technology as early as 2020. This technology will (12) _____ businesses to offer a better service to their customers. However, the complete (13) _____ of the whole territory is a (14) _____, because the system is still (15) _____. So far, they have focused on the economic (16) _____ of the country. In the next few months, they expect to (17) _____ a reliable service to the rest of the region.

PART 2: USE OF ENGLISH**I. Complete the table with the correct preposition in each case:**

a) over b) across c) underneath d) away e) out f) up g) from h) for

No.	Item	Answer
18	If a cable breaks, you have to send a ship into the water and throw a grappling hook.	
19	Fiber optics transmits light signals long distances.	
20	Cables stretch the ocean.	
21	Cables are laid the ocean.	
22	Light usually comes a building called a landing station.	
23	The landing station is usually tucked Inconspicuously in a seaside enclave.	
24	LED is an acronym that stands light emitting diode.	
25	You throw a cable on one side of the ocean and pick it on the other side.	

II. Measurements: Which measurement expression is correct?

26. The cable...

- a) is 10 cm long b) has 10 cm long c) is 10 cm length d) has 10 cm length

27. You may have eight fibers in a cable, and each one is very small in...

- a) thickness b) thick c) thickth d) thickness

III. Complete the sentences:

28. Fiber optic systems allow... a) that the signals travel a long way b) to the signals to travel a long way
c) that the signals to travel a long way d) the signals to travel a long way

29. copper wires, fiber optics do not suffer from interference from other fibers in the same cable.

- a) However b) Unlike c) Although d) Because of

30. An oscilloscope is an electronic test instrument which is used ... voltage waves. (2 possibilities)

- a) for to measure b) to measure c) for measuring d) to measuring

PART 3: PRONUNCIATION

I. Stress. Mark the stressed syllable:

31. Prototype: a) pro b) to c) type
32. Engineering: a) en b) gi c) nee d) ring
33. Develop: a) de b) ve c) lop
34. Diameter: a) di b) a c) me d) ter
35. Scientist a) sci b) en c) tist

II. Verb ending. Say if the verb ending is:

36. trained 37. transmitted 38. switched 39. connected 40. signalled
- a) /t/ b) /d/ c) /id/

PART 4: CONTENT

I. Choose the correct answer:

41. It takes to build a prototype. a) hours b) minutes c) months d) days
42. In an oral presentation... a) you must read the information aloud to the audience
b) you must not read the information but speak to the audience c) you can do 50% of reading and speaking
43. Oral presentations... a) must use a lot of technical jargon b) must include only relevant content
c) must present the visual information in bullet points d) must avoid addressing the audience
44. In a written CV... a) impersonal style is preferred b) everything should be personalized: *I did, I was...*
c) school levels below secondary education should be included d) hobbies are not welcome

II. Which question is correct for each of these job interview answers?

45. I see myself as a network designer, by that time I hope to have gained enough experience.
a) How do you see yourself? b) Where do you see yourself in 5 years' time?
c) Where would you see yourself if you were working with us?
46. I find it difficult asking for help, and I am not so good at meeting deadlines either.
a) What are your strengths? b) What are your weaknesses? c) What are your strengths and weaknesses?
47. Yes, I did a 3-month one for the design team in Siemens and it helped me gain experience on that field.
a) Did you do an internship? b) Did you do a doctorate? c) Did you do a course?
48. I chose it because I have always been interested in maths and technology. *Why did you choose...*
a) your faculty? b) your major? c) your skill?

III. Which question is correct for these answers about 5G?

49. 5G is designed to deliver peak data rates up to 20 Gbps.
a) How available is 5G? b) How capable is 5G? c) How fast is 5G? d) How enhanced is 5G?
50. Yes, 5G is already here today.
a) Is 5G fast now? b) Is 5G capable now? c) Is 5G enhanced now? d) Is 5G available now?