

DATOS DEL ASPIRANTE			FIRMA
APELLIDOS:			
Nombre:	D.N.I. N.I.E. o Pasaporte:	Fecha:	

Código del ciclo: IMAS03	Denominación completa del título: TÉCNICO SUPERIOR EN MECATRÓNICA INDUSTRIAL
Clave del módulo: 10	Denominación completa del módulo profesional: Ingles técnico para G. S.

IINSTRUCCIONES GENERALES PARA LA REALIZACIÓN DE LA PRUEBA
<ul style="list-style-type: none"> - Duración del examen: 90 minutos. - Complimentar los datos del aspirante antes del examen y firmar en todas las hojas que se entreguen. - Tener disponible el DNI en la mesa. - Señalar y escribir con tinta indeleble, que no sea roja, las respuestas y su desarrollo. - Si se ha de rectificar una respuesta, trazar un aspa o tachar con una línea horizontal. No utilizar líquido corrector (Tippex) - Utilizar solamente el papel facilitado por el examinador (con el sello y formato correspondiente).- Complimentar los datos del aspirante antes del examen y firmar en todas las hojas que se entreguen.
CRITERIOS DE CALIFICACIÓN Y VALORACIÓN
<p>La calificación correspondiente a cada una de las cuestiones / ejercicios planteados está indicada en las instrucciones de cada pregunta.</p> <ul style="list-style-type: none"> - La prueba se divide en cinco partes: <ul style="list-style-type: none"> • Vocabulario • Gramática • Comprensión lectora • Comprensión auditiva • Expresión escrita - Hay un máximo de 100 puntos posibles entre todos los ejercicios. Para aprobar se necesita sacar un mínimo de 5 puntos sobre 10 en el cómputo global.

CALIFICACIÓN
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SECTION 1: VOCABULARY (34 POINTS)

1 Complete each sentence using one of the words in brackets. (10x1=10 points)

- Before you walk onto the building site, please take _____ (apart / on / off / up) your shoes and then put on these safety boots.
- Bill's job is to _____ (maintain / inspect / operate / repair) the sub-sea oil pipe. He does this by filming the pipe with an underwater video camera.
- "What _____ (work experience / qualifications / job title / education) do you have for this job?" "Well, I repaired telephones for four years and now I repair mobile phones."
- The global positioning (or GPS) _____ (device / instrument / vehicle / system) consists of at least three satellites connected to a hand-held receiver.
- A theodolite is a precision _____ (instrument / vehicle / process / specialist) which is used by surveyors for measuring the land.
- Here are all the parts of the telephone. Please put them _____ (in / away / on / together) and make a complete telephone.
- Pete is the chief _____ (electrics / electrician / electrical / electricity) in the factory.
- You can (activate / locate / detect / appreciate) this generator by pulling this cable. It starts immediately when you do that.
- An X-ray technician is a _____ (device / tool / specialist / system) who operates the X-ray machine in a hospital or clinic.
- John is a junior technician in the IT department. He _____ (supervises / reports to / manages / reports from) the senior technician.

2 Replace the underlined phrase with a word/ phrase from the list below that has the same or similar meaning. (8x1=8 points)

non-combustible / brace / deepen / yield point / altitude / compressive strength / resistant to / plasticity

- A powerful digger was used to increase the depth of the trench. _____
- This desert vehicle must be able to withstand extremely high temperatures. _____
- We increased the load on the material until the moment when it changed shape. _____
- Fix a diagonal bar between the column and beam to strengthen the joint. _____
- The walls of the building are made of a composite which is impossible to burn. _____
- This material has great ability to deform to a new shape and stay in that shape. _____
- Barometers measure air pressure and can indicate how high you are above sea level. _____
- Concrete has good ability to withstand a force which presses down on it. _____

3 Match the items in numbers 1-6 with their descriptions A-F. Write a letter A-F in each space. (6x1=6 points)

- An object has this property when it can be bent without breaking. _____
- They're made of aluminium. They cool car engines. _____
- They're made of fibreglass and polystyrene. They are on racing cars. _____
- They're made of a heat-resistant ceramic. _____
- A device which has a wheel and a rope and it's used to lift heavy things. _____
- Instrument for measuring weight in kilograms. _____

- | | | | |
|---|-----------|---|--|
| A | scales | D | flexibility |
| B | radiators | E | the pistons in a racing car engine |
| C | pulley | F | the wings and spoilers of a racing car |

4 What is the correct word a-d to complete numbers 1- 12 below? Write a, b, c or d in each space. (12x0.5=6 points)

- Pull the _____ towards you to make the forklift truck move backwards.
a) pedal b) deck c) button d) lever

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- 2 The function of the _____ is to convert the sun's energy into electrical power.
a) solar panel b) dynamo c) solar power d) adapter

- 3 The plane is flying _____ at an angle of 45° to the ground.
a) horizontally b) vertically up c) diagonally up d) straight down

- 4 The electric current flows around the _____ from the power source to the lamp.
a) circuit b) battery c) ampere d) radiator

- 5 Two powerful jet engines _____ the aeroplane forwards at high speed.
a) propel b) release c) control d) cushion

- 6 Be careful with that bare wire. You might get an electric _____.
a) danger b) shock c) current d) hazard

- 7 The _____ of the engine contains all the moving parts and protects them.
a) piston b) valve c) housing d) shaft

- 8 The TV transmitter is mounted on a high _____ at the top of a hill.
a) mast b) joystick c) suspension d) mass

- 9 Look at that robot. Can it _____ and turn round?
a) reverses b) reversing c) reversed d) reverse

- 10 The tunnel is 3.5 kilometres _____.
a) length b) of length c) long d) in long

- 11 The inlet and outlet valves allow the water _____ and leave the chamber.
a) entering b) enter c) to enter d) enters

- 12 The climber descended the mountain slowly. He was _____ from a rope.
a) mounted b) attached c) disconnected d) suspended

5. Write these email and web addresses out in words as you would say them. Use the words from the list below and your own answer. (2x2=4 points).

dash – at – underscore – dot – slash

1. www.toyota.com/customer-support _____

2. adam@city.co.uk _____

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SECTION 2: GRAMMAR/ LANGUAGE (26 POINTS)

6 What is the correct letter a-d to complete numbers 1-37 below? Circle a, b, c or d in each number. (37x0.7=26 points)

- 1 What ____ your job?
a) are b) do c) it's d) is
- 2 Peter ____ an electrician.
a) works b) is c) does d) working
- 3 How many nails ____ you need?
a) do b) is c) does d) are
- 4 How do you ____ your surname?
a) wrote b) writes c) write d) written
- 5 What ____ that lever do?
a) are b) does c) is d) do
- 6 Does Tom's bicycle ____ a dynamo?
a) having b) had c) have d) has
- 7 Who ____ answer my question?
a) are b) has c) want d) can
- 8 What ____ when you push that pedal down?
a) happens b) happening c) happened d) happen
- 9 The students ____ working in the laboratory today.
a) can't b) don't c) aren't d) won't
- 10 The engineer ____ to Dubai for a meeting every month.
a) flies b) is fly c) fly d) flown
- 11 Spark plugs are made ____ a heat-resistant material.
a) to b) of c) for d) by
- 12 The radio ____ work because the batteries are flat.
a) isn't b) don't c) hasn't d) doesn't
- 13 How ____ the sea under the bridge?
a) deep b) the depth of c) deep is d) is deep
- 14 My car ____ down last week in the desert.
a) broke b) break c) broken d) has broken
- 15 How ____ sand is in that bag?
a) any b) much c) some d) many
- 16 The TV company launched the satellite ____ September last year.
a) on b) from c) at d) in
- 17 You ____ smoke in the workshop.
a) mustn't b) haven't c) aren't d) weren't
- 18 The electrician has ____ the fuses in the factory.
a) repair b) repairs c) repaired d) done repair
- 19 Have they installed the new computer yet? No, ____.
a) have not b) they haven't c) they not d) haven't they
- 20 When ____ the accident happen?
a) do b) has c) did d) was
- 21 How high ____ the plane when the accident happened?
a) flew b) was c) is d) flies
- 22 In a suspension bridge, the road is suspended ____ very strong cables.
a) to b) at c) from d) on
- 23 The water tower is about one metre ____ the building.
a) to left of b) of the left to c) to left d) to the left of
- 24 I didn't ____ that e-mail yesterday.
a) writing b) write c) wrote d) writes
- 25 He picked up the spark plug and inspected it. Then he put ____ again.
a) it down b) down c) down it d) it
- 26 "Has he repaired the brakes yet?" "No, not yet. ____ them."
a) He still repairs b) He's still repairing c) He still is repairing d) He's still repair
- 27 The workman rang the alarm bell by ____ the alarm button.
a) press b) pressing c) presses d) pressed

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- 28 Diesel engines are usually much _____ than petrol engines.
a) noisy b) noisier c) noisier d) too noisy
- 29 The safety inspectors _____ your oil platform tomorrow.
a) will to visit b) want visit c) to visit d) are visiting
- 30 Nowadays, car bodies _____ by robots, but checked by human workers.
a) paint b) painted c) are painting d) are painted
- 31 Would you mind _____ me when you plan to deliver my goods?
a) you inform b) please inform c) informing d) inform
- 32 About fifteen computer discs _____ from our company last year.
a) stole b) were stolen c) were stealing d) stolen
- 33 _____ you please send your latest catalogue to my office?
a) Have b) Do c) Could d) Should
- 34 A mobile phone is an electronic device _____ sends and receives voice and text messages.
a) which it b) that c) who d) that it
- 35 "What's this instrument for?" "It's for _____ the area of a wall".
a) measuring b) measurement c) measure d) measures
- 36 If your car doesn't start, why _____ the battery.
a) don't you recharge b) not you recharge c) you not recharging d) doesn't you recharge
- 37 My car has two antennas _____ to the roof
a) which attached b) attached c) are attached d) attach

SECTION 3: READING (12 POINTS)

7 Read the following text and answer questions 7.1., 7.2., and 7.3. below.

There's Plenty of Room at the Bottom

In 1965 Gordon Moore observed the tendency of electronic components' size. He saw it was halving every two years and predicted that this rhythm was going to continue. In the 60s, transistors had a size of some micrometers but in the 2010s, their size was in the scale of nanometers (there are 1 billion nanometers in a meter). That is when commercial nanoelectronics began. But its story started much earlier.

The Japanese Norio Taniguchi was the first to use the term "nanotechnology" in 1974. But the real father of nanotechnology was Richard Feynman, one of the most brilliant scientists of the 20th century. In 1959, he gave a speech called "There's plenty of room at the bottom". In it, he described the future: scientist manipulating atoms and molecules.

But there was a problem: to manipulate atoms, scientists needed to see them first. They were waiting for a tool to make this possible when in 1981 Gerd Binnig and Heinrich Rohrer announced they had it. The scanning tunneling microscope (STM) allowed scientist to see atoms. In 1986, while they were working at the lab, Binnig and Rohrer got the best news: they were the Nobel Prize Winners! They couldn't believe it. It seemed unreal. Actually, they had to check it again. Yes, they were the Nobel Prize Winners. It was impossible to focus, so they left the lab and called Mr Feynman: "Thanks, Richard, you were right. There was plenty of room at the bottom".

7.1. Comprehension. Are the following sentences a-d true (T) or false (F)? Make the false sentences true. (4x1=4 points).

a) A meter has a million of millions of nanometers ...

b) Commercial nanoelectronics started in the 2010s ...

c) Norio Taniguchi was the father of nanotechnology ...

d) Richard Feynman invented the word nanotechnology...

7.2. Comprehension. Answer the following questions **a** and **b** using your own words. Do not copy directly from the text. Your answer must be as complete as possible. (2x3=6 points).

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a) What was Richard Feynman's role in the emergence of nanotechnology?

b) Why was Gerd Binnig and Heinrich Rohrer's invention important?

1.3. Vocabulary. Find a synonym (two words maximum) in the text that means the same as: (4x0.5=2 points).

a) studied (paragraph 1):

b) the smartest (paragraph 2):.....

c) method (paragraph. 3):

d) enough, sufficient (paragraph 3):.....

SECTION 4 LISTENING (12 POINTS)

Part 1

Listen twice, and circle the correct answers a-d in numbers 1-6 below. (6x1=6 points)

- The name of Julia's company is Delta
- Julia works in the Department.
- Mr Brandt a classic ePhone last week.
- Mr Brandt wants to
- Mr Brandt's phone
- Mr Brandt's phone number is

Part 2

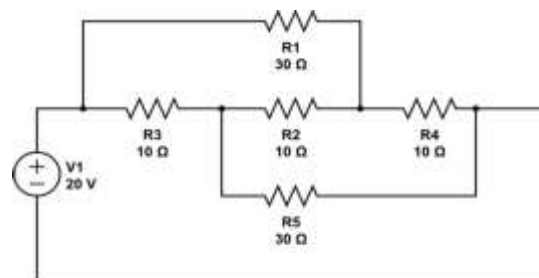
Listen once more and complete Julia's questions 7-12 below. Write one word in each space. (6x1=6)

- How I help you?
- What the problem, exactly?
- I put you through to the service department?
- you give me your name, please?
- you say that again, please?
- And you mind giving me your phone number, please?

SECTION 5 WRITING (16 POINTS)

Choose one of the options a or b below and write around 100-150 words.

a) Describe the components of this circuit and how it works:



b) Describe one electronic device that you have and that you like (describe its physical aspect, characteristics, what you use it for, its functionality, if you recommend it, etc.).