



UNIVERSIDAD POLITÉCNICA DE MADRID  
PRUEBAS DE ACCESO PARA MAYORES DE 25 AÑOS  
Convocatoria 2018

Modelo

MATERIA: INGLÉS

**INSTRUCCIONES**

Después de leer atentamente el texto y los enunciados de las cuestiones que se presentan abajo, responda en INGLÉS a dichas cuestiones.

**CALIFICACIÓN:** Las cuestiones 1ª, 2ª y 4ª se valorarán sobre 2 puntos cada una, la pregunta 3ª sobre 1 punto y la pregunta 5ª sobre 3 puntos.

**TIEMPO:** 60 minutos.

**Shaping the Future of Construction**

In 1950, the fishing village of Shenzhen in south-east China had just over 3,000 inhabitants. By 2025, this number will exceed 12 million. And Shenzhen is not alone. Urban areas around the globe are growing by 200,000 people per day, and all these people will need affordable housing as well as social, transport and utility infrastructure.

This is the starting point for a new report that gives some examples of the innovation in construction that the world needs in order to meet this enormous challenge.

Deloitte's new Amsterdam head office, the Edge, shows how smart building design can provide flexibility and comfort for its occupants while also reducing energy demands. Producing more energy than it consumes, the Edge is widely regarded as the most sustainable office building in the world. The multi-storey, north-facing glass atrium admits lots of daylight while concrete walls on the south facade absorb heat from sunlight, and solar panels convert that sunlight into energy.

A single network controls every technical system in the building, including a network of tens of thousands of sensors placed around the building. The lift, the lighting and cooling systems, coffee machines and towel dispensers, even the robot security guard which cruises around the building at night, can all be controlled and adjusted centrally.

Combined with a hot desk approach to working, the technological flexibility of the building means that its 1,100 workspaces can serve more than 2,500 staff.

Compared with many other industries, the construction industry has traditionally shown slow technological progress and has remained rather conventional in its ways. It is now the moment to meet the requirements of creating ever more human living space fast and in a cost-effective and sustainable way, the report suggests.

**QUESTIONS**

- 1 Are the following statements TRUE or FALSE? Write down the evidence from the text. No marks are given for only TRUE FALSE. (2 PUNTOS)
  - a) Deloitte's new building has not only glass walls to take advantage of solar energy.
  - b) The Edge general system has a central network to control all the building internal services, but the robots regulate the security service.
  
- 2 In your own words, explain the following sentences from the text (Maximum 15 words each). (2 PUNTOS)

a) By 2025, this number will exceed 12 million.

b) ...that its 1,100 workspaces can serve more than 2,500 staff.

3 Find a synonym for the following words, according to their meaning, in the text (1 PUNTO):

a) (paragraph 1) affordable

b) (paragraph 3) shows

c) (paragraph 4) lift

d) (paragraph 6) rather

4 Complete the following sentences. Use the appropriate form of the word in brackets, when given. (2 PUNTOS)

a) Not so ----- ago, smart office buildings were seen as something out of a science-fiction movie, but today the technology exists to make ----- a reality.

b) Smart buildings are much----- (easy) to run and maintain, ----- those that are not adapted to these changes.

c) If builders and developers looked -----how technology is making our offices smarter, our homes -----  
(be) more affordable.

d) Rewrite the following sentence in the passive voice:

A single network controls every technical system in the building

5 Write about 50 words about one of the following topics. (Choose only one topic) (3 PUNTOS).

a) Describe the main characteristics of the ideal city of the future. Give your opinion with some examples.

b) Do you think that giving people more control over their working place's heating and lighting make them feel happier? Give reasons for your answer.

## Suggested answers

1.

a) Deloitte's new building has not only glass walls to take advantage of solar energy.

TRUE- . *The multi-storey, north-facing glass atrium admits lots of daylight while concrete walls on the south facade absorb heat from sunlight, and solar panels convert that sunlight into energy.*

b) The Edge general system has a central network to control all the building internal services, but the robots regulate the security service.

FALSE: .....*can all be controlled and adjusted centrally....*

2.)

a) There will be more than 12 million inhabitants in the Chinese city of Shenzhen in 2025

b) The same workplaces can be used by different workers at different times thus the building can be smaller

3.

a) inexpensive (paragraph 1)

b) indicates (paragraph 3)

c) elevator (paragraph 4)

d) quite (paragraph 6)

4.)

- a) LONG / THEM
- b) EASIER, THAN.
- c) AT / -----WOULD BE-----

. - Every technical system in the building is controlled by a single network

**6 Write about 50 words about one of the following topics. (Choose only one topic) (3 PUNTOS).**

- a) Describe the main characteristics of the ideal city of the future. Give your opinion with some examples.
- c) Do you think that giving people more control over their working place's heating and lighting make them feel happier? Give reasons for your answer.

## Valoración y Criterios de Corrección

**Pregunta 1:** Hasta 2 puntos. Se trata de medir exclusivamente la comprensión lectora. El estudiante deberá decidir si dos frases que se le presentan son verdaderas o falsas, copiando a continuación únicamente el fragmento del texto que justifica su elección. Se otorgará 1 punto por cada apartado. Se calificará con 0 puntos la opción elegida que no se presente justificada.

**Pregunta 2:** Hasta 2 puntos. Se pretende comprobar dos destrezas: la comprensión lectora y la expresión escrita, mediante la formulación de dos preguntas abiertas que el estudiante deberá contestar basándose en la información del texto, pero utilizando sus propias palabras en la respuesta. Cada una de las preguntas valdrá 1 punto, asignándose 0,5 puntos a la comprensión de la pregunta y del texto, y 0,5 a la corrección gramatical y ortográfica de la respuesta.

**Pregunta 3:** Hasta 1 punto. Esta pregunta trata de medir el dominio del vocabulario en el aspecto de la comprensión. El estudiante demostrará esta capacidad localizando en el párrafo que se le indica un sinónimo, adecuado al contexto, de cuatro palabras o definiciones. Se adjudicará 0,25 por cada apartado.

**Pregunta 4:** Hasta 2 puntos. Con esta pregunta se pretende comprobar los conocimientos gramaticales del estudiante, en sus aspectos morfológicos y/o sintácticos. Se presentarán oraciones con huecos que el estudiante deberá completar o rellenar. También podrán presentarse oraciones para ser transformadas u otro tipo de ítem. Se adjudicará 0,25 a cada "hueco en blanco" y en el caso de las transformaciones o ítems de otro tipo se concederá 0,5 con carácter unitario.

**Pregunta 5:** Hasta 3 puntos. Se trata de una redacción, de aproximadamente 50 palabras, en la que el estudiante podrá demostrar su capacidad para expresarse libremente en inglés. Se propondrán dos opciones, de las que el candidato tendrá que elegir una. Se concederán hasta 1,5 puntos por el buen dominio de la lengua – léxico, estructura sintáctica, etc. – y 1,5 por la madurez en la expresión de las ideas – organización, coherencia y creatividad.

Dada la brevedad del texto requerido no parece preciso una rúbrica detallada para la corrección de esta redacción, pero, a modo de orientación, se mencionan los elementos valorativos más importantes: claridad, precisión y coherencia del mensaje; capacidad para desarrollar un punto de vista; no existen errores gramaticales ni ortográficos importantes y muestra variedad de vocabulario junto a fluidez en el uso de conectores.