

主催 公益財団法人 全国商業高等学校協会

## 第7回パソコン入カスピード認定試験問題 (25.2.9)

# 英 語 部 門

(制限時間 10分)

試験委員の指示があるまで、下の事項を読みなさい。

### [ 書 式 設 定 ]

1. A4 縦長用紙
2. 1行の文字数を半角76字(全角38字)、1ページの行数を29行に設定しなさい。
3. ヘッダーに試験実施校名、受験番号を入力しなさい。
4. ページ番号を答案用紙の下に入れること。
5. フォントの種類は明朝体、フォントのサイズは12ポイントに設定すること。(問題のフォントは Courier New で作成している。)
6. プロポーショナルフォントは使用しないこと。

### [ 注 意 事 項 ]

1. 問題のとおり、すべて半角英数文字で入力しなさい。
2. 入力したものの訂正などの操作は制限時間内に行いなさい。

### 試験終了後

1. 答案用紙が2枚以上になった場合、左端上をステープラ(ホチキス)でとめなさい。
2. 答案用紙、試験問題を提出しなさい。

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What will our way of life like in the future? A group of students from abroad at Chiba University try to seek out the possibilities with their plan for making a solar house for next generation by mixing a new technology and good old ways of life in Japan.	67 138 206 258
Wires hang from the roof of the Omotenashi House so that plants can grow up on them and create a green curtain that will not only offer shade to residents, but also provide them with vegetables.	322 394 454
Around 50 students at the national university are bracing themselves for international student competition held every two year, for which entrants present designs for solar-powered, eco-friendly houses.	523 592 658
The Chiba University team, which has been chosen as one of the 20 finalists, includes international and Japanese students from many fields, such as architecture, medicine and horticulture. It's the first and only group from Japan to take part in the event.	724 798 872 917
The Japan team hopes that its creation, the Omotenashi House, can beat the 19 rival teams, which hail from 15 countries, mostly from Europe. "Omotenashi means thoughtfully and sincerely conveying a feeling of consideration to those you encounter," A 27-year-old architecture doctoral student and the leader of the Chiba University explains in English the team's ideas behind the house. "It arises from Japanese traditional customs and practices such as tea ceremony or flower arranging."	979 1050 1124 1193 1261 1330 1395 1408
So how is the spirit of Omotenashi manifested in the house? And how will it represent the new and old? The two key features of the one-story house are the engawa and tatami mats, both of which used to be common in traditional-style Japanese houses. The engawa, which extends around the whole building, is made from a mixture of recycled wood and plastic and is constructed with nails only as part of the team's efforts to reduce its reliance on chemicals. It is the engawa that is a space where dwellers	1477 1551 1624 1697 1772 1844 1916

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can connect and communicate with the outside world.	1969
"Engawa extends outward (from a room), allowing neighbors to casually stop by for tea or a chat while shaded from the sun, and without worrying about encroaching on the residents' privacy," he said. "We want to promote such soft aspects of the house, as we believe it enriches people's lives."	2030 2104 2178 2247 2265
Instead of having tatami permanently laid out on the floors, the team has created a dozen box-shaped, movable tatami benches. Inside each bench is a special gel pad, which has been designed to solidify at 15 degrees and slowly liquify as it absorbs heat when room temperatures rise. The tatami mat benches can be left outdoors during the night, which cools the gel pads, and then brought inside during the day to keep temperatures lower without the use of electricity.	2330 2399 2471 2543 2612 2680 2737
Traditional Japanese housing, from which this new building takes a lot of inspiration, has the disadvantage of often being too hot in the summer and too cold in the winter, a problem caused by poor thermal insulation and solved here by the team's use of vacuum insulated wall, ceiling and window panels. Electricity for the residents is generated by the 460 solar panels on the house's roof, which can produce enough energy to allow two people to live comfortably while still using the TV, air-conditioners and PCs on a daily basis. In addition, the house will be surrounded by an edible green curtain of beans, tomatoes, cucumbers, bitter melon and grapes, which are grown on thin wires in front of the engawa, and there is a rice paddy in the front yard. These are features that both help to keep the building from being overheated.	2804 2875 2943 3014 3085 3155 3224 3295 3361 3430 3503 3576
In keeping with the idea of residents being as self sufficient as possible, inside there is also a veggie factory, where lettuce is currently being grown under LED lights in a fridge-like box developed by the university's faculty of horticulture. The LEDs are not only are	3642 3708 3781 3850

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energy efficient but can also be adjusted in brightness and color to	3919
help maximize the vegetables' growth.	3958
As good as this all sounds, making such a house a viable option for	4026
the ordinary consumer will likely take some time. The housing materials,	4100
as well as all the environmentally friendly appliances the house is	4168
equipped with, don't come cheap, and everything featured in the	4232
Omotenashi House was donated by private-sector companies.	4291
The housing company offered all kinds of technical and logistic	4355
assistance to the team because it shares the students' goal to promote	4426
not just technologically advanced housing, but also eco-friendly and	4495
health-conscious lifestyles.	4525
What are the chances of the Omotenashi House winning the Solar	4588
Decathlon Europe? As the word "decathlon" suggests, the event's jury	4658
will judge 10 different aspects of the houses, including architectural	4729
design, engineering and energy efficiency.	4773
"We are confident we can achieve a spot in the top five," the leader	4842
said, noting that the team has been testing the house in preparation for	4915
the competition. "But German and French teams have lots of knowhow	4983
as they are used to competing there."	5022
The team's success will also hinge on how well its members present	5089
themselves during the event. "This is a great chance to show Japan's	5159
strength in housing technologies, and have them judged from a global	5228
perspective."	5241

※ 出典 「The Japan Times」 発行 Tuesday, May 29, 2012 より