

## Task 1

Read the text below. Match choices (A-G) to (1-5). There are two choices you do not need to use.

- A Magnetic waves within the material
- B High temperature a desirable product
- C Exceptionally for the wealthy
- D Precious stone lengthens life
- E The Oriental record of application
- F Imitating a natural product
- G Glass-making process is a by-product of a synthetic alternative

1. \_\_\_\_\_ Purple has long been associated with luxury, not least because of its rarity in nature. Tyrian (or Phoenician) purple—painstakingly extracted from sea snails boiled for days in lead vats — was so heavily restricted to the elites of ancient Rome that even the word purple became synonymous with the emperor. Hence the saying “donning the purple” for becoming the ruler of Rome.
2. \_\_\_\_\_ It wasn’t until 1856 that a chemist finally stumbled (by accident) upon a synthetic alternative, which according to the fashion of the time he called ‘mauve’. Immediately, it was seized upon by the rich and famous, by Empress Eugénie in France and by Queen Victoria in Britain.
3. \_\_\_\_\_ Purple was similarly exalted in the East. Han purple was no less synonymous with nobility in ancient China than Tyrian purple in ancient Rome. But this Chinese purple was a pigment, not a dye, and it had a far less variable hue. It is thought to have been created as early as 800 BC, but the most famous examples of its use date back to around 220 BC when it was used to paint the Terracotta Army and murals in the tomb of the first emperor Qin Shi Huang at Xi’an.
4. \_\_\_\_\_ After that, it disappears from the historical record entirely. And it wasn’t until the 1990s that scientists synthesized a new batch, the first in almost 2000 years. The process to make the copper barium silicate pigment was so intricate, though, that they couldn’t believe it was discovered by accident; surely the Chinese had been taught. For one thing, it involved the grinding of precise quantities of various materials. And for another, it required heating to between 900 and 1,100 degrees Celsius.
5. \_\_\_\_\_ But it differed substantially enough from Egyptian blue to rule out cross-cultural knowledge-sharing. Perhaps, since it contains barium, Han purple was a by-product of the glass-making process—discovered by Taoist alchemists trying to synthesize white jade. This would certainly explain its appeal to the immortality-obsessed Qin Shi Huang in particular, since white jade was linked to health and longevity.

## Task 2

Read the text below. For questions (6-11) choose the correct answer (A, B, C or D)

### **Archeologists have unearthed close to 50 settlements so far. More discoveries to follow.**

Excavations of the Trypillian settlements are taking place in the village of Lehedzyne, Cherkasy oblast.

Bertrand Coste, a French patron, and a group of representatives of the Ukrainian mass media recently visited the archeologists. As the director of the expedition Volodymyr Kruts highlighted that it was the largest known Trypillian settlement between the modern villages of Lehedzyne and Talianky. Scholars have long been interested in the huge settlements of the Trypillians between the Ruh and the Dniester. Their dimensions are astonishing: the settlement at Talianky has an area of 450 hectares, that at Maidanets - 250 hectares.

Geomagnetic surveillance showed that they contained 1,500 to 2,800 buildings located in concentric circles, inhabited by 6,000 to 25,000 people. So far, less than 50 settlements have been excavated. According to the director of the expedition, it takes half a month to clear the site and reach the top layer of the constructions. Oleksiy Korvin-Piotrovsky, the project leader, stated that a building with unique architectural details had been found this year; the floor and the altar survived in a particularly good condition. There was the first recorded evidence that the people who left the dwelling took the furnace, a symbol of the family hearth, with them. The pot found under the house was probably the family talisman. The project leader emphasized that such results enable scholars to make inferences about the micro-chronology of the development of settlements.

The expedition to excavate the Trypillian settlements started in 1981. Mr. Coste has been co-financing the research for more than 10 years now. From time to time he arrives at the excavation site to see the progress, celebrate the successes and gains together with the expedition, and settle certain issues that arise in the course of excavations.

What urged the French businessman to create, in 2001, a joint project with the Institute of Archeology at the National Academy of Sciences of Ukraine and the charitable fund SEARCH Foundation “Exploration of Gigantic Settlements of the Trypillian Culture”?

“Ukraine is a young independent state with an ancient history. There was a lot of talk about the Trypillian culture, but nothing was getting done. That is why I decided to help the Institute of Archeology at the National Academy of Sciences of Ukraine,” said Coste.

By the way, in the recent years the expedition has been financed totally at the expense of its patrons. Scholars do not get any state funds for excavations. “Our dream is that the officials at least let us expand the sphere of research, help create favourable conditions for work, and realize at last that financial support for the projects preserving the historical heritage will enhance the patriotic sentiment of the Ukrainian people,” emphasized the participants of the expedition.

**6. According to the first paragraph the Trypillian settlements \_\_\_\_\_.**

- A** are the centre of the world mass media
- B** are being advertised by the French
- C** are sponsored by Ukrainian mass media
- D** are being studied by the scholars

**7. What does the author mean by saying that “the dimensions [of the Trypillian settlements] are astonishing” (line 7) \_\_\_\_\_ ?**

- A** Scholars are to spend much time excavating the ancient relics.
- B** The Trypillian settlements cover the territory of two modern villages.
- C** The total area of the settlements is difficult to believe.
- D** The Trypillian settlements were located far from each other.

**8. Which of the following can be inferred from the text?**

- A** The Trypillians built their dwelling in geometrical figures.
- B** Scholars have to work for nearly two weeks to get to the first artifacts.
- C** The settlements were overpopulated.
- D** The Trypillian settlements should not have been excavated.

**9. According to the text, which of the following is TRUE?**

- A** The object were believed to have magic power.
- B** The Trypillians didn't know how to heat their dwellings.
- C** There was no evidence concerning the Trypillians' religious beliefs.
- D** The scholars did not manage to make inferences about the micro-chronology of the development of settlements.

**10. When talking about the expedition to excavate the Trypillian settlements, the author mentions all of the following EXCEPT \_\_\_\_\_.**

- A** the number of people involved in the project
- B** the organizations and institutions participating in the project
- C** the sources of financing the activity
- D** the total area which is to be explored

**11. According to the text, which of the following statements is WRONG?**

- A** The archeologists are waiting for the permission to expand the sphere of research.
- B** The aim of the project is to make the Ukrainian people proud of their past.
- C** Mr. Coste has been supporting the project for more than 10 years.
- D** The project is funded by local authorities.

### Task 3

Read the text below. Match choices (A-H) to (16-20). There are two choices you do not need to use.

#### Outdoor adventure

From the stately flanks of its Cascade volcanoes to the stony shores of its myriad waterways, the region offers an unmatched wealth of all fresco activities.

12 \_\_\_\_\_

Hurricane ridge, huge trees, hikes, Lake Crescent and quaint towns. Visit the 5th most visited National Park in the US. Enjoy Puget Sound ferry rides, gigantic trees dripping with moss, hike up to a waterfall, and enjoy the spectacular view from mile high hurricane ridge. See the heart of this unusual and wild ecosystem. On this tour you have a good chance of spotting elk, deer, eagles, and maybe even banana slugs.

13 \_\_\_\_\_

With the onset of the spring snowmelt, the area serves up prime-time Whitewater rafting. Rafters flock to two rivers in particular: the forest-hemmed Skykomish and the wide-open, sundrenched Wenatchee. Both offer rollicking fun for participants of all skill levels. Guide services offer tours on both rivers.

14 \_\_\_\_\_

From the crystal-clear trout streams of the Cascades and Olympics to the deep-water sport-fishing waters of Washington's Pacific Coast, the Evergreen State offers up an array of angling opportunities that ranks among the nation's best. Whether you're after salmon, steelhead, tuna, trout, halibut or any number of first-class fish, the Pacific Northwest has something for you.

15 \_\_\_\_\_

Home to 8-foot octopi and sixgill sharks, Puget Sound is one of the deepest, most diverse aquatic ecosystems in the Lower 48. Harmless creatures aside, it's also home to some great diving. From West Seattle's Alki Beach to the San Juans, the Puget Sound offers entertaining dive options for beginners and pros alike. Contact a local dive shop for suggested dives and local know-how.

16 \_\_\_\_\_

Seattle is literally inundated with lakes, rivers and saltwater, so it only makes sense that kayaks are a preferred mode of sightseeing. Several outfitters offer rentals on Seattle's Lake Union and Elliott Bay, but if you're hankering for an escape from civilization, head north to the San Juan Islands. Once there, you'll find stunning scenery and first-class paddling - plus a bevy of guide services to provide the boats and show you the way to aquatic nirvana.

- A If you want to reach the highest top.
- B You'll be pleased with the perfect fishery.
- C Do you like submarine travelling?
- D Enjoy an adventurous water ride in spring!
- E Enjoy wonderful horse back scenery.
- F Acquaint with the amazing underwater world.

- G** Exciting tours with water ride activities.  
**H** Do you prefer walking among other activities?

## Task 4

Read the text below. Choose from (A-H) the one which best fits each space (17-22). There are two choices you do not need to use.

Biologically, kids' bodies shift toward a later schedule during the teenage years, for 17 \_\_\_\_\_ and less like early risers. But despite the change in their internal body clocks, school start times and other schedules don't change.

We have set up a system 18 \_\_\_\_\_ and some kids who might be at risk of mental and behavioral health problems. One way to help teens get enough sleep is to have school start later, 19 \_\_\_\_\_, as they've found that the later times let kids sleep more. They also have seen fewer car accidents, higher test scores, and better graduation rates, 20 \_\_\_\_\_ are trying to change school start times in their state. If they succeed, California middle and high schools could start no earlier than 8:30 a.m.

But 21 \_\_\_\_\_, teenagers have to help themselves, experts say suggesting teens sleep for 10 hours each night for a week or two. This will help them figure out how much sleep they need to feel their best.

Sleeping more on weekends to 22 \_\_\_\_\_ isn't a good idea, though, as getting different amounts of sleep each night can be bad for mental health.

The amount of sleep you get on weekdays and weekends should be the same. We don't starve ourselves of food on weekdays and gorge on weekends. We shouldn't do that with sleep either.

- A** because of which California lawmakers
- B** until schools change their start times
- C** make up for missing sleep during the week
- D** that's very difficult for many teenagers
- E** which some school districts have already done
- F** due to which the amount of sleep varies
- G** which reason they become more like night owls
- H** seems to have more effect in some areas

## Task 5.

Read and complete the text below. For each of the empty space (23-32) choose the correct answer (A, B, C or D)

## Do Cows Point North?

By David Derbyshire, Environment Editor

If you're lost in the countryside without a compass, don't panic. Just look for a herd of cows and see which way they are pointing.

After (23)\_\_\_\_\_ the behaviour of thousands of cattle, scientists have found that they tend to face north after aligning themselves with the Earth's magnetic field.

The astonishing ability appears to be a (24)\_\_\_\_\_ of the days when the wild ancestors of today's domesticated cattle used inbuilt compasses to find their way across the plains of Africa, Asia and Europe on long (25)\_\_\_\_\_.

Although cows are famed for their ability to (26)\_\_\_\_\_ rain hours advance, their talent for navigating has so far gone overlooked.

Dozens of species of animals use the Earth's magnetic field to navigate - including birds, turtles, termites and salmon. The ability is also (27)\_\_\_\_\_ in some mammals including rats and bats. Animals are thought to use (28)\_\_\_\_\_ magnets - made of crystals of magnetite - to find their way around. Homing pigeons, for instance, have a tiny blob of these crystals in their beaks. Dr Sabine Begall and colleagues from the University of Duisburg-Essen used Google Earth to find images of cattle in worldwide locations including Britain, Ireland, India and the U.S. They (29)\_\_\_\_\_ directly observed almost 3,000 deer in the Czech Republic. Their researches suggested that cattle were behaving in the same way as their close relatives, the deer.

(30)\_\_\_\_\_ the direction of the wind and sunlight varied hugely in the different locations, the scientists were able to rule out weather and the position of the sun as an explanation. "We conclude that the magnetic field is the only common and most likely factor responsible (31)\_\_\_\_\_ the observed alignment," the researchers wrote in the journal Proceedings of the National Academy of Sciences. Gwyn Jones, who has kept dairy cattle for 25 years in West Sussex, (32)\_\_\_\_\_: "They know what weather to expect in advance. Beef cattle will head up to higher altitudes if the weather is going to be good. "My dairy cattle have their favourite fields where they go if it is going to be sunny."

	A	B	C	D
23	monitoring	inspection	observing	acquaintance
24	track	surplus	relic	hint
25	dislocations	migrations	relocations	travels
26	forecast	prophesy	presage	see
27	eminent	surfaced	notable	found
28	visual	internal	embed	integrated
29	too	already	also	finally
30	because	actually	however	sometimes

31	to	for	towards	at
32	suggested	confirmed	announced	told

### Task 6

Read the text below. Complete the story with the correct forms of the words in brackets (33 – 44).

#### A great place to visit all four seasons

In Norway, each season has its own special features and charm. The contrasts are great and the scenery is ever-changing, year round. If you (33)\_\_\_\_\_ that Norway was a country only really suitable for summer holidays, then you are mistaken. The Norwegians are just as active in the winter. In winter they swap their (34)\_\_\_\_\_ boots for skis, their swimming costumes for classic knickerbockers. Did you see the broadcasts from the Winter Olympic Games in Lillehammer? Never before have so many people sat glued to (35)\_\_\_\_\_ TV screens as during those two weeks in February 1994. Never before has such a successful winter Olympics been staged, and Norway was once and for all placed on the map as (36)\_\_\_\_\_ great winter nation.

Norway is a paradise for all (37)\_\_\_\_\_ who enjoy messing about in the snow in winter. Ski enthusiasts from all over Europe flock here. You can go skiing on the Olympic facilities in Lillehammer, where Alberto Tomba and Vegard Ulvang (38)\_\_\_\_\_ on by tens of thousands of spectators.

Whichever style of (39)\_\_\_\_\_ you prefer - slalom, cross-country, snowboarding, freestyle or telemark - you can do it here. One thing we don't recommend, however, is ski jumping at Holmenkollen. Holmenkollen is the ski jump which (40)\_\_\_\_\_ consider to be the Mecca of the sport of skiing.

But before the white winter sets in, the autumn colours adorn the mountains and valleys of Norway. The scenery bursts into an explosion of (41)\_\_\_\_\_, yellows and oranges. A walk in the mountains is like an adventure in colour. A good thing to do is to take a rucksack and try your luck at fishing in the numerous ponds and lakes. If you are lucky, you may come across a piece of marshland (42)\_\_\_\_\_ with golden cloudberry, and you will find blueberries in the forests which taste wonderful with pancakes.

In spring the snow begins to retreat and the flora and fauna awaken. The rivers and waterfalls become gushing (43)\_\_\_\_\_ which carry the melting snow from the mountains down to the fjords and out to the ocean. The sight of the fruit trees in blossom brightens up the fjords and valleys after the long winter. Norwegians start looking forward to 17 May, the (44)\_\_\_\_\_ national day.

	A	B	C	D
33	had thought	will think	thought	think
34	hiker's	hike	hiking	hiked
35	them	they	theirs	their
36	the	a	an	—
37	which	those	these	this

<b>38</b>	were cheering	cheering	were cheered	cheered
<b>39</b>	skiing	skis	being skied	ski
<b>40</b>	Norwegian	Norwegians	Norwegians'	Norwegian's
<b>41</b>	redder	reddish	reds	red
<b>42</b>	to cover	is covered	covering	covered
<b>43</b>	torrents'	torrents	torrent	torrential
<b>44</b>	country's	country	countries	countries'