Sample tasks – reading: GEOGRAPHY

1. Logical connections: Supply the missing phrases

Quality of cartographic message depends on 1... and symbols. During map design process, symbol specification is often uncertain. Graphical signs 2... to tastes, needs and context of use. Colours use is of special relevance to environmental, topographic and thematic maps whose primary purpose is to 3... of main characteristics conveyed by the map. Communication in colour is more effective if the 4... . Colours choices, as mistakes or misunderstandings, are often highlighted: too many colours, 5..., too meaningful colours, etc. involving disturbances when readers try to 6...

- A colours used are appropriate
- B choices may be unsuitable
- C understand its cartographic message
- D create a mental image
- E kinds of chosen data
- F colours un-adapted to user's data

2. Terms: Read the text and put the missing words in the gaps. There are more words than gaps, you will not need three of them.

located	sideways	creates	divided	zones	consists			
categories	boundaries	moved	compos	ed				
			2.1		(4)			
The lithosphere (the earth's crust and the rigid upper part of the mantle) is (1) into								
seven large and several smaller plates. The plates, which are rigid, float on the underlying semi-								
molten mantle (the	molten mantle (the asthenosphere) and are(2) by convection currents. There are							
two types of plate: continental and oceanic. However, these terms do not refer to actual continents								
and oceans but to different types of crust or rock. Continental crust is(3)								
of older, lighter rock of granitic type. Oceanic crust(4) of much younger and denser								
rock of basaltic composition.								
As a result of convection currents generated by heat from the centre of the earth, plates may move								
towards, away fro	om, or		<u>(5)</u> along	adjacent pl	lates. It is at plate			
(6) where earthquake, volcanic and mountain-building zones are(7).								

3. Synonyms: Find 1 word from the text for each description below:

The Sahara has one of the harshest climates in the world. (1) The prevailing north-easterly wind often causes sand storms and dust devils. When the wind blows towards the Mediterranean, it is known as sirocco and often reaches hurricane speeds (2) in North Africa and southern Europe. Half of the Sahara receives (3) less than 20 mm of rain per year, and the rest receives up to 100 mm per year.[36] The rainfall happens very rarely, but when it does it is usually torrential when it occurs after long dry periods.

- a) the most severe, unpleasant
- b) the most frequent, common
- c) severe, often destructive storm, esp. a tropical cyclone
- d) pouring or flowing fast, violently, or heavily

4. Logical connections: Complete the text with the phrases.

More than 100 young Nigerians are teaming up with Google to add restaurants, markets, hospitals 1..... in the Nigerian capital to Google Maps. Youth leaders say by mapping their city, they could 2..... by attracting tourists and investors. They also see maps as a tool to improve security and reduce poverty.

- A unaware of changes in the country
- B volunteer for Internet search engine Google
- C and eventually all of Nigeria
- D boost the local economy
- E armed with tech devices
- F and other prominent locations
- G 20-something "citizen cartographers"

5. Synonyms: Find 1 word from the text for each description below:

Over the last thirty years, a migration took place in most major American cities – a migration away from the inner cities. As cities expanded in both population and size, many people decided to move away from city centers and out to the suburbs. Probably the most important reason for this change was the opportunity of owing a house in the suburbs. Construction companies built tract homes: cheap and often prefabricated houses which were economical and within reach of middle-class families.

In recent years, however, some American cities have seen a reversal of this trend. As more and more people move out to the suburbs, the freeways and public transportation systems have become overcrowded, leading to all the miseries of heavy commuter traffic. Also, the suburbs can often be boring, faceless blocks of tract houses and shopping malls with no cultural life or entertainment. As a result, some middle-class professionals have started moving back into the city, bringing with them the resources and the initiative needed to revive the run-down city centres.

Abbreviated from Fictumová: Conversation

1 major movement of people or animals

- 2 arew
- 3 already partially built
- 4 change in direction
- 5 things that make you unhappy
- 6 money and materials
- 7 return to life

6. Terms: Complete the text with the missing words. There are two extra words which will not be used.

vapor	pollutants	volu	me	gases	particulate		
molecules	CO	onstituents	various				
The air of the atmosphere is a mixture of many 1 In addition, the air holds many suspended liquid droplets and solid particles. However, only two gases make up about 99% of the 2 of air near the Earth. This air is composed primarily of nitrogen (78%) and oxygen (21%), with nitrogen being almost four times as abundant as oxygen. Atmospheric nitrogen and oxygen are diatomic (two-atom) 3, N2 and O2. The other main 4 of air are argon Ar (0.9%) and carbon dioxide CO2 (0.03%). Minute quantities of many other gases are found in the atmosphere, along with 5 matter. Some of these gases, especially water 6 and carbon monoxide CO, vary in concentration, depending on conditions and locality.							
7. Logical connections: Put the phrases back in the text. From K. Kelly, Geography,p.200 Places near the equator 1 because the sun shines straight down. These rays are more concentrated and 2 of atmosphere than sunrays at places near the poles. Air has weight and exerts pressure and so light, warm air tends to rise and exert low pressure. Heavy, cold air 3 and so air moves from high pressure to low pressure. There are general, prevailing patterns of moving air throughout the world called global winds. Ocean currents are also caused by unequal heating at different latitudes. Unequal heating 4 between warm and cool parts of the oceans. The global winds, caused by unequal heating, 5 along in their direction. Warm ocean currents, such as the North Atlantic Drift, 6 and keep harbours in high latitudes free of ice. A sets up convection currents B raise sea and air temperatures C help to drag the ocean currents D travel through a lesser depth E receive sunrays from almost directly overhead							
r presses dow	F presses down and exerts high pressure						
8. Terms: Complete the text with the right words. There are two more that will not be needed.							
birth dea	th change	increase	migrants	decrease	immigrants	fertility	
Population Change							
Natural 1 in population occurs when the birth rate is greater than the death rate. When the 2 rate is greater than the birth rate, there is a natural decrease. Population change may differ from the natural increase or decrease because it also takes into account 3 which include emigrants and immigrants. 4 rate means the number of births for every 1,000 people in a country for one year. The natural increase is found when the birth rate is measured against the number of deaths for every 1,000 people in the same year. People who move home from one country to another are called migrants. 5 increase population. Emigrants 6 population.							

Pressure has an effer Boiling is the proces from heating. If the escape, and the liquid Normally, when a homolecules form gas been enough, or greater the liquid is boiling. In the water's temperate In a sealed pressure regulated by a pressure of the water at the wa	est 1ess by which ess by which ess pressure is growd has to be head eated liquid appropriate the sense, boiling recorder, 5ere greater than the ses, the boiling prof Pike's Peak (The boiling nergetic mole eater above the ted 2 pproaches the the pressure of the bubble is a cooling eed 100°C, causing the allows vaporated and the point of water (elevation 430°C).	point of water in cules escape from the liquid, the molecular to take place. The boiling point 3 due to the molecular rise and break in machanism for the scape. Hence the cooking time is remay be several decompleted.	, poor lar activity in the surface. We the water. Energy to increase. The ce the water conseduced.	creasing pressure. energy is gained the more energy to ckets of energetic the bubbles is great then say that the ty is removed, and the extra pressure is tent of the cooker that sea level. For the ere water boils at	
about 86°C rather than at 100°C. Pressure cookers 7 if you want to eat on time. It is interesting to note that for high altitudes, cake mixes contain less baking powder than those at or near sea level. The baking powder supplies gas to "raise" a cake. If normal cake mixes were used at high altitudes, the cake 8						
A come in handy at B the atmospheric p C would rise too mu D to a higher tempe E in an open contain F the pressure on the G on the boiling point the pressure above 10. Complete the m	oressure is reducted and could exerture for boiling ner surface of the int of water we the liquid is in	explode ng e liquid increased	ee extra words tl	hat will not be r	needed.	
exceeding dete	ermined	fluctuated	contribution	mortality	deaths	
nonexiste	ent sibling.	s insu	rance educ	eation incr	reased	
In pre-industrial society, death rates and birth rates were both high, and 1						

11. Terms: Complete the text with the right words. There are two more that will not be needed.

equivalent	cylindrica	l project	ion	equidista	nt	globe	radiating
С	ronformal	constant	preser	ving	longitu	de	

A 1...... is the only way to represent the earth with constant scale throughout the entire map in all directions. A map cannot achieve that property for any area, no matter how small. It can, however, achieve 2...... scale along specific lines.

Some possible properties are:

- The scale depends on location, but not on direction. This is 3...... to preservation of angles, the defining characteristic of a 4...... map.
- Scale is constant along any parallel in the direction of the parallel. This applies for any 5...... or pseudocylindrical projection in normal aspect.
- Combination of the above: the scale depends on latitude only, not on 6...... or direction. This applies for the Mercator projection in normal aspect.
- Scale is constant along all straight lines 7...... from a particular geographic location. This is the defining characteristic of an 8...... projection such as the Azimuthal equidistant projection. There are also projections (Maurer, Close) where true distances from *two* points are preserved.

12. Synonyms: Find 1 word from the text for each description below:

A biome is different from an ecosystem. An ecosystem is the interaction of living and nonliving things in an environment. A biome is a specific geographic area notable for the species living there. A biome can be made up of many ecosystems. For example, an aquatic biome can contain ecosystems such as coral reefs and kelp forests.

Not all scientists classify biomes in the same way. Some use broad classifications and count as few as five biomes. These are forest, grassland, freshwater, marine, desert, and tundra.

Other scientists use more precise classifications and list dozens of different biomes. For example, they consider different kinds of forests to be different biomes. Tropical rain forests that are warm and wet year-round are one biome. Temperate deciduous forests—those that have cold winters, warm summers, and are dominated by trees that lose their leaves—are a different biome. Taiga forests, which are in cold regions and are dominated by cone-bearing firs and spruces, are yet another biome. Boundaries between biomes are not always sharply defined.

Biomes move as the climate changes. Ten thousand years ago, parts of North Africa were lush landscapes cut by flowing rivers. Hippopotamuses, giraffes, and crocodiles lived amid abundant trees. Gradually, the climate dried out. Today, this region is part of the Sahara Desert, the world's largest desert.

Adapted from http://education.nationalgeographic.com/education/encyclopedia/biome/?ar a=1

- a) mutual or reciprocal influence
- b) relating to the sea
- c) exact
- d) shedding all leaves annually
- e) large, chiefly aquatic African herbivorous mammals
- f) present in great quantity, many

KEY 1 1E, 2B, 3D, 4A, 5F, 6C 2 1 divided 2 moved 3 composed 4 consists 5 sideways 6 boundaries 7 located 3 a) harshest b) prevailing c) hurricane d) torrential 4 1F 2D 3G 4B 5E 6C 7A 5 1 migration 2 expanded 3 prefabricated 4 reversal 5 miseries 6 resources 7 revive 6 1 gases 2 volume 3 molecules 4 constituents 5 particulate 6 vapour 7 1E 2D 3F 4A 5C 6B 8 1 increase 2 death 3 migrants 4 birth 5 immigrants 6 decrease 9 1 G 2 D 3 E 4 F 5 H 6 B 7 A 8 C 10 1 fluctuated 2 nonexistent 3 exceeding 4 siblings 5 contribution 6 insurance 7 determined 8 famines 11 1 globe 2 constant 3 equivalent 4 conformal 5 cylindrical 6 longitude 7 radiating 8 equidistant 12 a) interaction b) marine c) precise d)deciduous e) hippopotamuses f) abundant **GRAMMAR** A) Transformations: Paraphrase the sentences by completing the gaps. Your new sentence must have the same meaning as the original one. The number of words in brackets is the number of words that you will use. 1. It is possible that Arctic rocks contain oldest remnants of the Earth. Arctic rocks oldest remnants of the Earth. (2 words) 2. Melting and mixing processes modified the material of the early Earth. The material of the early Earth melting and mixing processes. (3 words) 3. It seems that the Arctic rocks contain chemicals from the time just after the Earth's origin. The Arctic rocks chemicals from the time just after the Earth's origin. (3 w.) 4. Dr Jackson unearthed the oldest remnants of our planet's beginnings. (3 words) 5. Although they erupted only 60 million years ago, the lavas contain chemicals of a more ancient source. (2 words) 6. If proven, the new discovery would challenge our understanding of the early Earth. If the conclusions the new discovery would challenge our understanding of the early Earth. (2 words) B) Word formation: Use the words in capital letters to complete the sentences. Change the form of words. Do not use -ing form. 1. Most prime sites are in the city centre, mainly because of its . . . ACCESS 2. land is found further out from the city centre. **RESIDE** 3. Central Business District has a ______ of space. **SHORT** 4. Further out from the centre the land values have decreased due to less _____. COMPETE

DEVELOP

5. The 'retail revolution' led to the ______ of large edge-of-the-city shopping complexes.

C) Sentence transformation: Instruction as in task A)	
The soil contracts because of very low winter temperature Very low winter temperatures cause the	res (3 words)
2. You can find irregularly shaped polygons on the bed of a d Irregularly shaped polygons words)	1
3.It is possible that the cracks will be filled with windblown the cracks filled with windblown	<u>=</u>

4. This process is repeated annually. In the end the wedges grow to the maximum of 1m in thickness

This process is repeated annually _____ grow to the maximum of 1m in thickness and 3m in depth. (words)

Key

and 3 m in depth.

- A) 1 may, might, could 2 was modified by 3 seem to contain 4 were unearthed by 5 erupting only 6 were proven, were proved
- B) 1 accessibility 2 Residential 3 shortage 4 competition 5 development
- C) 1 soil to contract 2 can be found 3 could, may, might 4 until the wedges