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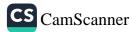
#### Daffodil International University Department of Computer Science and Engineering Faculty of Science & Information Technology Final Examination, Summer 2022 Course Code: ENG123: Course Title: Writing & Comprehension Sections & Teachers: All

Time: 2:00 Hrs

Marks: 40

[The figures in the right margin indicate the full marks and corresponding course outcomes. All portions of each question must be answered sequentially.]

Reading	20 x 1 = 20 marks	C01
<ul> <li>Reading Passage 1: Read the following passage and answ Can we prevent the poles from melting. A growing number of scientists are looking to increasingly ambitious tect of global warming. Mark Rowe reports.</li> <li>A. Such is our dependence on fossil fuels, and such is the volume of carl released into the atmosphere, that most climate scientists agree that si inevitable – the best we can hope to do is keep it at a reasonable level uphill task. At present, the only serious option on the table for doing emissions, but while a few countries are making major strides in this great difficulty even stemming the rate of increase, let alone reversing number of scientists are beginning to explore alternatives. They all fa geoengineering – generally defined as the intentional large-scale mar and reduce the amount of sunlight reaching the planet. One scheme fr cooling of the Earth and involves the concept of releasing aerosol sput the Arctic to create clouds of sulphur dioxide, which would, in turn, is modelled on historical volcanic explosions, such as that of Mount 1991, which led to a short term cooling of global temperatures by 0.5 delivered by artillery, high flying aircraft or balloons.</li> <li>C. Instead of concentrating on global cooling, other schemes look specific the poles. One idea is to bolster an ice cap by spraying it with water, below the sea ice, the spray would come out as snow or ice particles, higher albedo (the ratio of sunlight reflected from a surface) to reflec.</li> </ul>	wer questions 1-2. ? hnological fixes to halt the open dioxide we have alree gnificant global warming , and even that is going to this is cutting back on our regard, the majority are h g it. Consequently, an ince ill under the banner of dipulation of the environing d scale, for decades. May having deposited dry ice, now suggested to do the of occuses on achieving a generative avaing the stratosphere lead to global dimming. Pinatubo in the Philippin S <sup>CC</sup> . The aerosols could be fically at reversing the m Using pumps to carry war producing thicker sea ico t summer radiation. Scient enland with cables that has	he tide ady g is now to be an r carbon having reasing ment. y Day silver opposite, neral above The idea es in be elting at ther from e with a ntists ave been
below the sea ice, the spray would come out as snow of ice particles, higher albedo (the ratio of sunlight reflected from a surface) to reflect have also scrutinized whether it is possible to block ice fjords in Great reinforced, preventing icebergs from moving into the sea. Veli Albert that such an idea is impractical because the force of the ice would ult rapidly release a large quantity of ice into the sea. However, Kallio b used in suspension bridges could potentially be used to divert, rather movement of ice from Spitsbergen. 'It would stop the ice moving sources	t summer radiation. Scient enland with cables that has t Kallio, a Finnish scient imately snap the cables a elieves that the sort of ca	ntists ave been ist, says and ables
<ul> <li>them float northwards,' he says.</li> <li>D. A number of geoengineering ideas are currently being examined in the planting millions of birch trees: the thinking, according to Kallio, is the increase the amount of reflected sunlight. The loss of their leaves in vision snow to reflect radiation. In contrast, the native evergreen pines tend radiation. Using ice-breaking vessels to deliberately break up and sea and Antarctic waters in their respective autumns, and diverting Russi</li> </ul>	he Russian Arctic. These hat their white bark woul winter would also enable to shade the snow and al	the h Arctic



(low to ice-forming areas, could also be used to slow down warming, Kallio says. 'You would need the wind to blow the right way, but in the right conditions, by letting ice float free and head north, you would enhance ice growth.'

- E. But will such ideas ever be implemented? The major counter-arguments to geoengineering schemes are, first, that they are a 'cop-out' that allow us to continue living the way we do, rather than reducing carbon emissions; and, second, even if they do work, would the side-effects outweigh the advantages? Then there's the daunting prospect of upkeep and repair of any scheme as well as the consequences of a technical failure. 'I think all of us agree that if we were to end geoengineering on a given day, then the planet would return to its pre-engineered condition very rapidly, and probably within 10 to 20 years,' says Dr. Phil Rasch, chief scientist for climate change at the US-based Pacific Northwest a strategy to employ only while we manage the conversion to a non-fossil- fuel economy.' 'The risk with geoengineering projects is that you can "overshoot",' says Dr. Dan Lunt, from the University of Bristol. 'You may bring global temperatures back to pre-industrial levels, but the risk is that the poles will still be warmer than they should be and the tropics will be conformed to the risk is that the poles.
- will still be warmer than they should be and the tropics will be cooler than before industrialization.'
  F. The main reason why geoengineering is countenanced by the mainstream scientific community is that most researchers have little faith in the ability of politicians to agree and then bring in the necessary carbon cuts. Even leading conservation organizations believe the subject is worth exploring. As Dr. Mortin Sommerkorn, a climate change advisor says. 'But human-induced climate change has brought humanity to a position where it is important not to exclude thinking thoroughly about this topic and its possibilities despite the potential drawbacks. If, over the coming years, science tells us about an ever-increased climate sensitivity of the planet and this isn't unrealistic they may be best served by not having to start our thinking from scratch.'

# 1 Reading Passage 1 has six paragraphs A-F. Which paragraph contains the following information?

Write the correct letter A-F after the information below. NB You may use any letter more than once

- i. the existence of geoengineering projects distracting from the real task of changing the way we live
- ii. circumstances in which geoengineering has demonstrated success
- fii. maintenance problems associated with geoengineering projects
- iv. support for geoengineering being due to a lack of confidence in governments more success in fighting climate change in some parts of the world than others

2 Look at the following people and the list of opinions below. Match each person with the correct opinion A-E. Write the correct letter, A-L after the opinions below:

## A. Phil Rasch B. Dan Lunt C. Martin Sommerkorn

#### List of opinions

- The problems of geoengineering shouldn't mean that ideas are not seriously considered.
- ii. Some geoengineering projects are more likely to succeed than others.
- iii. Geoengineering only offers a short-term solution.
- iv. A positive outcome of geoengineering may have a negative consequence elsewhere.
- v. Most geoengineering projects aren't clear in what they are aiming at.

### Reading Passage 2: Read the following passage and answer questions 3-4. America's oldest art?

A. Set within treacherously steep cliffs, and hidden away valleys of northeast Brazil, is some of Southeast America's most significant and spectacular rock-art. Most of the art so far discovered from the ongoing excavations comes from the archaeologically – important National Park of the Serra da Capivara in the state of Piaui, and it is causing quite a controversy. The reason for the uproar? The art is being dated to around 25.CC0 or perhaps. According to some archaeologists, even 36,000 years ago. If correct, this is set to challenge the wide-field view that America was first colonized from the north, via the Bering Straits



rom eastern Siberia at around 10.000 BC. only moving down into Central and South America in the nillennia thereafter.

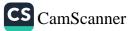
2. Prior to the designation of 130,000 hectares as a National Park, the rock-art sites were difficult to get to nd often dangerous to enter. In ancient times, this inaccessibility must have heightened the importance of he sites, and indeed of the people who painted on the rocks. Wild animals and human figures dominate he art and are incorporated into often-complex scenes involving hunting, supernatural beings, fighting ind dancing. The artists depicted the animals that roamed the local ancient brushwood forest. The large nammals are usually hunted in groups and tend to be shown a running stance, as they trying to escape from hunting parties. Processions – lines of human and animal figures – also appear of great importance to these ancient artists. Might such lines represent family units or groups of warriors? On a number of banels, rows of stylized figures, some numbering up to 30 individual figures, were painted using the natural undulating contours of the rock surface, so evoking the contours of the seconding landscape. Other interesting, but very rare, occurrences are scenes that show small human figures holding on to and dancing around a tree, possibly involved in some form of a ritual dance.

**C.** Due to the favourable climatic conditions, the imagery on many panels is in a remarkable state of preservation. Despite this, however, there are serious conservation issues that affect their long-term survival. The chemical and mineral quantities of the rock on which the imagery is panted are fragile and on several panels it is unstable. As well as the secretion of sodium carbonate on the rock surface, complete panel sections have, over the ancient and recent past, broken away from the main rock surface. These have then become buried and sealed into sometimes-ancient floor deposits. Perversely, this form of natural erosion and subsequent deposition has assisted archaeologists in dating several major rock-art sites. Of course, dating the art is extremely difficult oven the non-existence of plant and animal remains that might be scientifically dated. However, there am a small number of sites in the Serra da Capivara that are giving up their secrets through good systematic excavation. Thus, at Toca do Roqi.omo da Pedra Furada. rock-art researcher Nide Guidon managed to obtain a number of dates. At different levels of excavation, she located fallen painted rock fragments, which she was able to dale to at least 36,000 years ago. Along with toe painted fragments, crude stone tools were found. Also discovered were a series of scientifically datable sites of fireplaces, or hearths, the earliest dated to 46,000 BC. arguably the oldest dates for human habitation in America.

D. However, these conclusions are not without controversy. Critics, mainly from North America, have suggested that the hearths may, in fact, be a natural phenomenon, the result of seasonal brushwood fires. Several North American researchers have gone further and suggested that the rock-art from this site dates from no earlier than about 3,730 years ago, based on the results of limited radiocarbon dating. Adding further fool to the general debate is the fact that the artists in the area of the National Hark tended not to draw over old motifs (as often occurs with rock-art), which makes it hard to work out the relative chronology of the images or styles. However, the diversity of imagery and the narrative the paintings created from each of the many sites within the National Park suggests different artists were probably making their art at different times and potentially using each site over many thousands of years. E. With fierce debates thus raging over to dating, where these artists originate from is also still very much open to speculation. The traditional view ignores the early dating evidence from the South American rock-art sites. In a revised scenario, some anthropologists are now suggesting that modern humans may" have migrated from Africa using the strong currents of the Atlantic Ocean some 63.000 years or more ago, while others suggest more improbable colonization coming from the Pacific Ocean. Yet, while the ether hypothesis is plausible, there is still no supporting archaeological evidence between the South American coastline and the interior. Rather, it seems possible that there were a number of waves of human colonization of the Americas occurring possibly over a 60,000-100,000 year period, probably using the Bering Straits as a land bridge to cross into the Americas.

**F.** Despite the compelling evidence from South America, it stands alone: the earliest secure human evidence yet found in die state of Oregon in North America only dates to 12,300 years BC. So this is a fierce debate that is likely to go on for many more years. However, the splendid rock-art and its allied anthropology of northeast of Brazil, described here, is playing a huge and significant role in the discussion.

3 Choose the correct letter, A, B, C or D. Write the correct letter on your answer sheet.



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	<i>i</i> . According to the first paragraph, the rock-art in Serr accepted ideas about	a da Capivara may revolutioniz	ie		
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	b. the date when the earliest people arrived in South Ame	erica			
	c. the origin of the people who crossed the Baring Start		Cold and the second		
	9. the variety of cultures which developed in South Amon		and the second se		
	in now did the ancient artists use the form of the rock w	where they painted?	1 Martin Martin		
•	A to minine the shape of the countryside nearby	, Familia	Con Martin		
	B. to emphasize the shape of different animals				
	C. to give added light and shade to their paintings		Part La		
	D. to give the impression of distance in complex works				
	III. In the fourth paragraph, what does the winter say is unusual about the real of the fourth of the say is unusual about the real of the say is unusual about the say is unusual about the real of the say is unusual about the real of the say is unusual about the say is unus				
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	<ul><li>A. They had a very wide range of subject matter.</li><li>B. Their work often appears to be illustrating a story.</li></ul>				
	C. They tended to use a variety of styles in one painting.				
1	D. They rarely made new paintings on top of old ones.				
+	On your answer sheet, write				
	YES, if the statement agrees with the claims of the writer				
	<i>NO</i> , if the statement contradicts the claims of the writer				
	<b>NOT GIVEN</b> , if it is impossible to say what the writer thinks about this				
	i. Archaeologists have completed their survey of the rock-art in Piaui.				
	Vii. The location of the rock-art suggests that the artists had a significant role in their society.				
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