<u>Software - 2021 IGCSE 0478</u>

1. Nov/2021/Paper_11/No.8

		develops a computer game to sell on a gaming website. She writes her program using like statements.				
(a)	Sta	te which type of programming language Victoria is using.				
		[1]				
(b)	Victoria uses two different types of translator when creating the program for the compute game.					
	Sta	te which translator is the most suitable for the given tasks.				
	Give the benefits of using that translator for the task.					
	You	ı must choose a different translator for each task.				
	(i)	To translate the code during development of the game.				
		Translator				
		Benefits				
		100				
		[3]				
	(ii)	To translate the final program and upload to the website for distribution, without the source code.				
		Translator				
		Benefits				

[3]

	rogrammer can use translators, such as an interpreter and a compiler, when developing a puter program.
(a)	Give one similarity between a compiler and an interpreter.
	[1]
(b)	Describe two differences between a compiler and an interpreter.
	Difference 1
	Difference 2
	[4]
(c)	Identify one other type of translator.
	[1]

2. Nov/2021/Paper_12/No.6

(a)		us uploads his application to his website for people to download. Before he uploads the lication, he translates the code using a compiler.				
	Exp	plain why Julius uses a compiler, rather than an interpreter, to do this.				
		[4]				
(b)	Julius also creates videos to explain how to use the application that he has created. He reduces the file size of the videos using lossless compression.					
	(i)	Describe how lossless compression reduces the file size of the video.				
		[3]				
	(ii)					
	(ii)	[3]				

Julius creates a computer application that calculates how many years it will take to pay for a

3. Nov/2021/Paper_13/No.7a,c

house.

	(i)	Describe freeware and free software.
		Freeware
		Free software
		[4]
	(ii)	Julius also considers distributing a trial version of the application.
		Identify the type of software he could use to distribute his application as a trial version.
		[1]
(d)	Juliu	us makes sure that all data transmission to and from his website is secure.
		way a user can check if his website uses secure data transmission is to check its ificate.
	Give	e two other ways that a user can identify if his website uses secure data transmission.
	1	
	2	
		[2]

(c) Julius wants to distribute his application to a wider audience. He is considering distributing it as freeware or free software.

4. June/2021/Paper_13/No.5

Six statements are given about programming languages.

Tick (\checkmark) to show whether each statement applies to high-level language, assembly language or machine code. Some statements may apply to more than one type of programming language.

Statement	High-level language (✓)	Assembly language (✓)	Machine code (✓)
it requires a translator to be processed by a computer			
it is an example of low-level language			
it uses mnemonics		0	
it uses English-like statements			
it can be used to directly manipulate hardware in the computer	10,	5	
it is portable			