End of Unit Quiz – Unit 2.5 Translators and facilities of languages

1. Name **one** example of a high level programming language.

2.

a. What is meant by the term 'machine code'?

b. What is the name of **one** suitable translator that you can use?

c. What are **two** advantages for writing computer programs using a high level language?

3.

a. There is a programme written using assembly language. What is the name of the translator that is needed before this program can be executed?

b. What is **one** similarity and **one** difference between assembly language and machine code instructions?

4.

a. Some languages are translated using a compiler. What is the name of another suitable translator?

b. What are **two** differences between the two types of translator?

5. What is the purpose of an assembler?

6.

a. What are **three** useful features of an IDE?

b. For **one** of the features you have stated, explain why this feature is helpful.

7.

a. Computer programs can be written in high level languages, assembly language or machine code. What are two differences between high level languages and machine code?

b. What is the relationship between assembly language and machine code?

8.

a. What is meant by ‘code completion’ and how does this helps programmers?

b. What is meant by ‘debugging tools’ and how does this help programmers?

c. What is the name and explain the purpose of one other feature from an IDE?

9.

a. Which piece of code relates to which type of programming language below?

i. High Level Language

ii. Assembly Language

iii. Machine Code

Code 1	Code 2	Code 3

`LDA score`
`ADD one`
`STA score`
	`score = score + 1`	`0101 0011 1010`
		`0001 0000 0001`
		`0011 0011 1010`

b. An interpreter would translate the code between which two types of language?

c. What are some of the advantages and disadvantages of using an interpreter rather than a compiler?

10. A programmer wants to write a computer program for creating 3D models that can be used by pupils in schools. They are not sure whether to write it in assembly language or a high level language. They are not sure what kind of translator to use either. What are the consequences for each choice and advise the programmer on what to do.