**N5 Revision Questions**

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| 1 | Convert the decimal number 56 into the equivalent 8 bit binary number. | 1 |
| 2 | In relation to the software development process, explain what is meant by the term iterative. | 1 |
| 3 | Describe a control character found in ASCII. | 2 |
| 4 | Name the two types of translators used in software development. | 2 |
| 5 | Explain one difference between an interpreter and a compiler. | 1 |
| 6 | Identify the translator used in the development stage of a program? | 1 |
| 7 | Identify the translator used to produce the customers program? | 1 |
| 8 | Identify the three main parts of a processor and describe their function. | 3 |
| 9 | Identify the 3 buses of a processor and describe their function. | 3 |
| 10 | Identify and explain a security precaution used to keep data secure. | 2 |
| 11 | If a hacker gained unauthorised access to your system what security measure could keep your data safe? | 1 |
| 12 | Describe how a computer system would represent a number with decimal places, eg 3.14. | 2 |
| 13 | State the 3 data types used for a database when storing a name, a phone number and if they have paid their subscription. | 3 |
| 14 | State the programming language used to provide interactivity on a webpage, for example when a user moves their mouse over a picture to zoom in. | 1 |
| 15 | Identify the data type and structure used when storing a list of exam results. | 2 |
| 16 | Explain what you could do to send an attachment which is over the file size limit. | 1 |
| 17 | Explain the advantage to mobile users if you compress the images and videos found on your website. | 2 |
| 18 | State 3 guidelines to increase your programs code’s maintainability. | 3 |
| 19 | Describe the term “Low Fidelity Prototyping”. | 1 |
| 20 | Describe the advantage a relational database has over a flat file database. | 1 |
| 21 | Describe relative and absolute addressing. | 2 |
| 22 | State the name of three objects found in vector graphics. | 4 |
| 23 | Describe how one of these shapes is stored in an image, mention at least 2 key aspects. | 2 |
| 24 | Identify an advantage a Vector graphic has over a bitmap graphic. | 1 |
| 25 | Describe two tests you could carry out when testing an information system. | 2 |
| 26 | Describe a way you can limit a user’s choice when entering data into an information system. | 1 |
| 27 | Describe an advantage to limiting a user’s choice. | 1 |
| 28 | State the number of variable required in a program when calculating  Area = length \*width | 1 |
| 29 | Using pseudo code, write a program to enter the required data, calculate and display the area of a rectangle. | 3 |
| 30 | Identify the standard algorithm which could be used to check the data entered is in the correct range. | 1 |
| 31 | Give an example for each type of testing when entering the length and height of the rectangle. The length and height must be between 1 and 10. | 3 |
| 32 | Describe what you can do to put a database table in order. | 2 |
| 33 | Explain how a primary key is used in a database table. | 1 |
| 34 | Explain how a foreign key is used in a database table. | 1 |
| 35 | State the full name and describe the 4 laws used in computing. | 4 |
| 36 | Describe what URL stands for. | 1 |
| 37 | State 3 languages used to create web pages. | 3 |
| 38 | Describe the difference between an internal and an external hyperlink. | 2 |
| 39 | Explain why you should design and make a different website for a desktop computer and a smartphone. | 1 |
| 40 | When designing a website what would you use to improve the navigation? | 1 |
| 41 | Write the CSS rule for a large heading: font blue, size 14 and centred. | 4 |
| 42 | Explain how computers cause an increase in your carbon footprint. | 1 |
| 43 | Write the code required for a robotic pen to draw a square. Make it as efficient as possible. | 3 |
| 44 | Describe, with an example, what a predefined function is. | 2 |
| 45 | Explain how a firewall is used to protect a computer system. | 1 |
| 46 | State 3 design notations used in software development. | 3 |
| 47 | State the design notation used to create a user interface. | 1 |
| 48 | Explain an advantage for using a flow chart. | 1 |
| 49 | A program is needed to enter 20 pupils names and exam marks, what type of loop should be used. | 1 |
| 50 | Identify another type of loop used in software development. | 1 |
| 51 | A program is used to enter 20 pupils names and exam marks, what two calculations would you need to display the average exam mark? | 2 |
| 52 | A program is used to enter 20 exam marks between 0 and 100. Write the correct condition used to validate the input. | 3 |
| 53 | Describe what the tags <ol> and <li> are used for in html. | 2 |
| 54 | Complete an entity relationship diagram for an Amazin™ showing the tables Customers and Orders. | 2 |
| 55 | Write out the SQL statement to display the customer’s name, address, customer ID and product ID who bought the product ID =1234. The data is all stored in a table called Orders. | 3 |
| 56 | Describe what happens to the data when the following SQL line is added to Q55’s statement: ORDER BY customer name ASC | 1 |
| 57 | Describe what happens to the database when the SQL statement is run:  UPDATE customers SET surname = Clooney WHERE surname = Cloonie | 1 |
| 58 | State a suitable complex condition for a program that will display “PASS” when a student has got 50% and over for both their coursework and their exam. | 3 |
| 59 | A program is needed to enter 20 pupil names and exam marks and display the average exam mark. Write the program using pseudo code as efficiently as possible. | 5 |
| 60 | The program used in Q58 needs to include a section of code which makes sure the exam mark entered is between 0 and 100. Write the pseudocode for this. | 3 |