

MCQS ANSWERS

Question 1: Which of these is not a method for ensuring a program is robust? (1-4)	✓
Keeping passwords safe	
Data Validation	
Authentication	
Data Sanitisation	
Question 2: Why is code indented? (1-4)	✓
To group together a function	
The code does not use a { syntax and indentation is used instead	
To make it easier to read	
All of the above	
Question 3: What is data validation? (1-4)	✓
Checking that the data entered is wrong	
Checking that the data entered is correct	
Checking that the data entered is sensible or reasonable	
Question 4: Which of these authentication methods is most secure? (1-4)	✓
Password	
Password and username	
Key Card	
Physical and Code	
Question 5: Which of these IS NOT an example of validation (1-4)	✓
Checking the number entered is 2 digits	
Asking a user to enter the same data in twice	
Use of a Lookup table	
Use of a presence check	
Question 6: What does a range check do? (1-4)	✓
Checks data across a range of numbers	
Checks the data is within an acceptable range	
Where three types of data are used	
Checks that the data is in the correct format	
Question 7: When a program runs it asks the user to enter their full name. Which is an example of Valid data? (4-6)	✓
Mr Jones	
Sarah	
Sarah Jones	
Mrs Jones	

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Question 8: Which one of these is not a method for planning for misuse? (1-4)	✓
Limiting the number of login attempts	
Requesting a password and user name	
Authentication	
Not validating the data entry	
Question 9: Which is a not method of authentication (1-4)	✓
Password	
Password and user name	
Pattern Password	
Finger print password	
Question 10: What is Maintainability? (1-4)	✓
Checking programs work	
Updating Code so that it is compatible with current requirements	
Testing a program for errors	
Training staff to use the program correctly	
Question 11: Which one of these is not a method for planning for misuse? (1-4)	✓
Stripping unwanted characters	
Removing duplicated letters	
Converting lowercase to uppercase Letters	
Converting large numbers to smaller numbers.	
Calculating answers from formula	
Question 12: Which of these is not a method for authenticating a user? (4-6)	✓
Password	
Password and Username	
Finger print scanner	
Encryption	
Question 13: Why are comments used in a program? (4-6)	✓
It is required to make the program run	
Comments pad out the program and make it look more professional	
To keep the user aware of any program errors and issues.	
To help security in the code	
Question 14: When should comments be used within a program? (4-6)	✓
To help describe what code and structures are expected to do	
To remind the developer of when lunch is	
To include what tests must be carried out on the code	
Every line, so that you know exactly what is happening	

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Question 15: What is defensive programming design? (4-6)	✓
Making your code / program error free	
Creating code that is easy to use and understand	
A method of ensuring that your code is not misused	
Code where the data is validated	
Question 16: A user attempts to enter in an incorrect password, what method would identify this issue? (6-8)	✓
Data Validation	
Authentication	
Program Comments	
Indentation	
Question 17: A user enters in extra data attempting to access the system, which method would identify this issue? (6-8)	✓
Data Validation	
Input Sanitisation	
Input Check	
Format Check	
Question 18: A program has a section of code that could cause errors, which method could be used to identify this issue? (6-9)	✓
Maintainability	
Authentication	
Program Comments	
Indentation	
Question 19: What is the difference between Data Validation and Input Sanitsation? (6-9)	✓
Nothing, they are the same?	
Data Validation checks the data is reasonable and Sanitsation removes unexpected or unrequired data.	
Data Validation checks the data is correct and Sanitsation removes data that contains errors	
Sanitisation checks the data is correct and Validation removes invalid	
Calculating answers from formula	
Question 20: A section of a program has recently stopped working, which method could be used to resolve this issue? (6-9)	✓
Data Validation	
Input Sanitsation	
Maintainability	
Authentication	

MCQS ANSWERS Unit 2.3 Robust Programs

Lesson 2 Testing Programs

Question 1: When is terminal testing carried out? (1-3)		✓
Before you start		
At the end		
During the project		
After the design section		
Question 2: Why is code indented? (1-3)		✓
To group together a function		
The code may not use a { syntax and indentation is used instead		
To support code maintainability		
All of the above		
Question 3: Which of these is NOT a feature of a test plan? (3-5)		✓
The data entered		
The type of test data		
If the testing is terminal or iterative		
The expected outcome		
The result of the test		
Action required as a result of the test		
Question 4: When is a runtime error identified? (3-5)		✓
After the program is executed		
Before a program runs		
While the program runs		
Question 5: Which line contains a syntax error? (3-5)		✓
print ("hello")		
sprint("Hello")		
print("hello)		
print("HELLO")		
Question 6: What is iterative testing? (3-5)		✓
Testing completed after an error is found		
Random tests on a computer program		
Tests completed as the program is being coded		
Tests which are planned		
Question 7: When a program runs it asks the user to enter their first name. Which is an example of Valid data? (4-6)		✓
Mr Jones		
Sarah		
Sarah Jones		
Mrs Jones		

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Question 8: When a program runs it asks the user to enter their age. Which data would be most suitable to test for an incorrect piece of data being entered? (1-3)	✓
44	
1	
97	
Forty Five	
Question 9: (6-9) Look at the program below and classify the error print ("Hello") name = input ("What is your name?")	✓
Logic error	
Data error	
Text error	
Syntax error	
Question 10: Which is the not a name of a group of Test Data that you would use in a test plan? (4-6)	✓
Valid Data	
Range Data	
Nil value data	
Average Data	
Question 11: Which of these are not a real type of data? (4-6)	✓
Valid Data	
Personal Data	
Nil value data	
Real Data	
Boundary Value	
Question 12: Consider a test plan, what comes after the Expected Result ? (1-4)	✓
The result of the test	
The data that is to be entered	
The type of data type	
An example of the data used	
Question 13: What problems can occur when coding a program? (1-4)	✓
Bugs in code	
Wrong user name / password details	
Poorly designed GUI	
Changes in program syntax	
Question 14: Testing while coding a program is called? (4-6)	✓
Development Testing	
Coder Testing	
Terminal Testing	
Iterative Testing	

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Question 15: Who is credited with finding the first computer bug? (1-4)	✓
Grace Hooper	
Grace Hoper	
Grace Hopping	
Grace Hopper	
Question 16: What is a breakpoint? (6-9)	✓
The point at which a program breaks	
A feature which a coder user to stop a program at a certain line	
The point in a program where an error is found	
The point at which the coder is frustrated with the program	
Question 17: Which of these is appropriate data for a range test for a youth club? (4-6)	✓
10 – 20 years	
16 – 19 years	
13 – 19 years	
13 – 23 years	
Question 18: What is a null value test on data entry? (4-6)	✓
Data that does not have a value such as a name or phone number	
Data that is not entered in order to test how the program responds	
Data that has a value of zero	
Data that is incorrect	
Question 19: Which datum below is a valid test for an age field?	✓
18.6	
99	
Twenty-Five	
17 years 5 months	
Calculating answers from formula	
Question 20: What is the purpose of testing? (1-4)	✓
To identify errors	
To identify issues that may occur when a customer uses the program	
To test the security of the program	
All of the above	