

Name:

Date:

Chapter 7 questions:

Q1. A new system will be tested. The month part of the date of birth field must be a whole number between 1 and 12 inclusive. Using this as an example, describe the following three types of test data.

(i) Abnormal data
.....
.....
..... [2]

(ii) Normal data
.....
..... [2]

(iii) Extreme data
.....
..... [2]

Q2. After the system is implemented it will be evaluated. Identify three activities which would need to be carried out in evaluating the system.

1
.....
2
.....
3
..... [3]

Q3. After a system is designed it will be implemented. Describe each of the following methods of implementation.

(i) Direct changeover

.....

.....

(ii) Parallel running

.....

.....

(iii) Phased implementation

.....

.....

(iv) Pilot running

.....

.....

[4]

Q4. A test is marked out of 20 and recorded as an integer. Tick whether each of the following marks is an example of **abnormal** data or **extreme** data.

	Abnormal	Extreme
20		
21		
twenty		
0		

[4]

Q5. After the system is implemented the travel agent will be given documentation to go with it. This will consist of technical documentation and user documentation. Explain the purpose of each type of documentation and two different items that each type of documentation will contain.

Technical documentation

Purpose

Item 1

Item 2

User documentation

Purpose

Item 1

Item 2

[6]

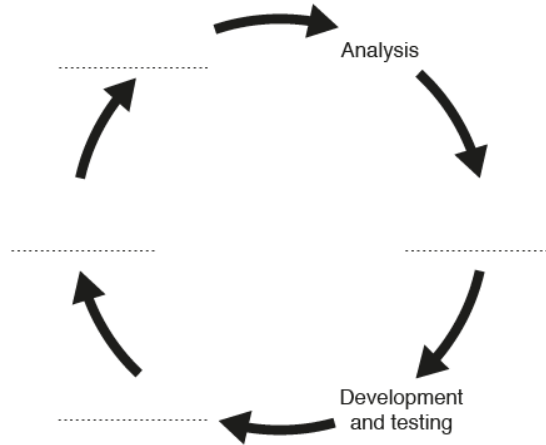
Q6. Tick whether the following activities are part of the Design or the Implementation or the Evaluation of a system.

	Design	Implementation	Evaluation
Comparing the outcomes with the original task requirements			
Changing over to the new system			
Identifying any limitations and necessary improvements to the system			
Selecting validation routines			

[4]

Q7. The systems life cycle is shown. The Design, Evaluation, Documentation and Implementation stages are missing.

Write these stages into their correct places.



[4]

Q8. Carlos is designing a new computer system to replace an existing system.

(a) Tick **four** items which will need to be designed.

	Tick
Inputs to the current system.	
Data capture forms.	
Report layouts.	
Limitations of the system.	
Observation methods.	
Improvements to the system.	
User and information requirements.	
Validation routines.	
Problems with the current system.	
File structure.	

[4]

(b) Before the system is implemented it needs to be tested. Different types of test data are used to test the system. An example of test data is live data.

Describe what is meant by live data.

[2]

(c) Following the implementation of the system, technical documentation needs to be written. Identify **three** components of technical documentation which are not found in user documentation.

[3]

Q9. Evaluation is a part of the systems life cycle.

Describe **two** evaluation strategies.

[2]

Q10. A company has decided to update its current computer system.

As part of the analysis, name two methods they could use to research their existing system.

Give **one** advantage and **one** disadvantage of each.

[2]

Q11. A new system has to be tested before it can be implemented. A variety of test data is used. Name the following types of test data.

(a) Data that is outside the boundaries of acceptability.

..... [1]

(b) Data that is on the boundary of acceptability.

..... [1]

(c) Data that is not on the boundary but is within the range of acceptability.

..... [1]

(d) Data that has been used before and has known outcomes.

..... [1]

Q12. Validation is a way of checking data in a database.

Name the most appropriate validation check that matches each description below.

Makes sure that the data entered into a field is exactly 10 characters [1]

Makes sure that a number lies between 10 and 100 [1]

Makes sure that the data entered is numeric [1]

Makes sure that the date is entered as DD/MM/YYYY [1]