

# **System Analysis & Design**

## **AS ICT Past Paper Questions**

### **Scenario 3**

#### **Question 4**

Mr Mustapha is the head teacher of a large school. The school currently has a computer network but he wants to have a new system which will allow the school to keep student personal records and test marks. He also wants to have a system which will let the students have the opportunity to use computers to improve their learning. He has invited Joanne Reeves, a systems analyst, to design and create the new system.

After Joanne has designed the new system she will want to develop and test it. Describe the testing strategies she could use.

(a) Three from descriptions of:

Test each module

Using live data/normal data/data which is acceptable/valid

Using data outside the range/wrong type/either end of the range

Test whole system/use students to test CAL system

Joanne will need to produce technical documentation. Describe the two types of technical documentation she will produce.

(c) Systems documentation – one mark

Two from:

Results of systems analysis

What is expected of the system

Overall design decisions

Test plan and test data

Systems flowcharts

Program documentation – one mark

Two from:

Description of the software

Purpose of the software

Input/output data formats

File structures

Program flowcharts/algorithm

Program listing

Notes to assist future modifications

### **Scenario 2**

#### **Questions 3 and 4**

The July 23<sup>rd</sup> Hospital in Cairo is improving its existing computer system to make it more efficient.

They currently have separate systems for storing:

- staff records

- payroll records.

One single database is required which will store all this data. A systems analyst is being employed to analyse the existing system and then design a new system.

Describe three different methods the systems analyst could use to collect information about the existing system and describe situations where each could be used.

Six from:

Interview employees/managers face to face

Description of situations where interviewing is used – when there is sufficient time/when it is

# System Analysis And Design Sample Question Paper

**K Morrison**



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