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Practice Questions and Answers

Chapter 1: Data Processing and Information

Q1a

Describe what is meant by data.

- Data are raw facts
 - Data has no meaning
 - Data is unprocessed
- Others - Data has no Context

Plural form of data Singular form is datum

Practice Questions and Answers

Q1b

Describe what is meant by information.

- Information is data that has been processed
- Information is data has meaning
- Information is data in Context

Practice Questions and Answers

Q2a

A hospital nurse records direct data about her patients every day.
Describe the benefits of using direct data in this context.

5- The data she collects will be more reliable because she knows where it came from.

Direct data is data that is collected for a specific purpose or task and is used for that purpose only.

Direct data is also seen as original source data.

Indirect data is the data obtained from a third party and used for a different purpose to that which it was originally collected for and which is not necessarily related to the current task.

- 1- The data she collects will be up to date
- 2- The hospital nurse can get exactly the data she wants
- 3- She will have better quality information about her patient
- 4- The hospital nurse will be able to provide a better quality of service

Practice Questions and Answers

Q2b

Describe the drawbacks of using direct data in this context.

- She may suffer from bias
- Prone to human error
- Requires access to the source (ist) this simply means the patient presence is required
- No organisation of data
- No peer review

Practice Questions and Answers

Chapter 5 - eSecurity

Q3a An unauthorised person can try to obtain login details to bank accounts. Describe how vishing can be used to obtain these login details.

- The unauthorised person phone the victim pretending to be a call from the bank
- The unauthorised person claims that there is an issue with the victim account
- The unauthorised person persuade the victim to give them the victim details
- The unauthorised person convinces the victim into believing they are talking to the real bank

Practice Questions and Answers

Q3b Identify two ways of preventing login details from being obtained by vishing

- Do not answer the phone to unknown number (1st)
- Do not give login details to anyone over the phone
- Contact the bank on a known number
- Report the call to your bank
- Don't use any phone number provided by the caller

Practice Questions and Answers

Chapter 7 - Expert System

Q4a

A knowledge base is one component of an expert system.
Describe what is meant by the term knowledge base.

- Is a database where the facts of the expertise are stored
- rules base are stored

Practice Questions and Answers

Q4b

Describe how a knowledge base is used in an expert system.

- Knowledge base holds the facts of the expertise
- Knowledge base holds the rules that are used to interrogate the facts
- It is interrogated by the inference engine
- The IF THEN rules are used in the rules based

Practice Questions and Answers

Chapter 8 - Monitoring and Control

Q5a Explain the reasons why sensors must be calibrated before they are used.

- Calibration maintains the accuracy of the sensors to ensure they produce reliable / accurate readings
- Sensors might not be adapted to the required environment because the conditions can change
- Other components that are part of the system can impact on the reading, which affect the reading so making it accurate
- Sensor accuracy changes with time because wear and tear from the environment (atmosphere or liquids that are being used)

Practice Questions and Answers

Q5b Compare one-point calibration with multipoint calibration.

- They both need to be done regularly
- They both compare values with known measurements
- Only one measurement point with one-point calibration while multipoint calibration at least two or three readings are taken
- One-point calibration requires a simple calculation to take account of the error while multipoint calibration requires a complex calculation
- One-point calibration is used with sensors that measure a single value while multipoint calibration is used with sensors that measure a range of values that have a non-linear relationship

Practice Questions and Answers

Chapter 2: Hardware and Software

Q6

Describe what utility software is and why it is needed on a computer system.

- Utility Software is a type of System Software used by an operating System.

Why utility software is needed

- Used by the operating system to maintain a computer file
- It improves the computer performance
- Examples are anti-virus, file copying, data compression

Practice Questions and Answers

Chapter 10: Database and File Concept

Q7a

Describe the term dynamic parameter query.

- A query that prompts the user for an input
- Allows the parameter or criteria to be changed each time
- Allows to search based on specific parameters or criteria the user needs at any given time

Practice Questions and Answers

Q7b Describe the benefits of using dynamic parameter queries when using a database

[Enter Name]

- Allows the end user flexibility
- Requires little technical knowledge by the end user
- Saves time in not creating a new query every time
- It provides a user friendly way to interact with the database
- Efficient way to search a database

Practice Questions and Answers

Q8a Sound files can be edited. *Chapter 11: Video and sound editing*
Describe overdubbing, give a reason why it is used. *Rain sound*

- Overdubbing is the adding tracks or voice clips

Reasons

- Adds voice over
- Add extra instruments
- Add Complexity to the music
- Add sound effects to match what's happening on the screen.

Practice Questions and Answers

Q8b

Sound files can be edited.

Describe equalisation, give a reason why it is used.

Equalisation means boosting or attenuating the levels of different frequency bands

Reasons

- To reduce the hiss
- To reduce intrusive noise frequencies
- To emphasise a guitar solo in a music track
- To pick out speech from background sounds

Practice Questions and Answers

Q8c

Sound files can be edited.

Describe reverberation^{echo}, give a reason why it is used.

Reverberation is an effect that adds echo to a sound

Reasons

- To give depth to a sound
- To create a dramatic effect in a radio or podcast

Practice Questions and Answers

Q9

A programmer is developing a new piece of software. The programmer has decided to write code that needs to be interpreted so that it will run. Justify the programmer's decision.

- The programmer can write in an high level language
- The program code will run on different Computers
- The programmer does not need to code in machine language
- An Interpreter will highlight mistakes as they are found
- It is easier to debug the program

Practice Questions and Answers

Q10

A space rocket uses a guidance system. Describe how this guidance system uses real-time processing.

- It uses sensors and actuator, for the sensor example proximity sensor
- It uses a process called feedback
- Real time processing runs continuously
- Real time processing can run autonomously
- output from the system affects the sensor (input)
- Real time processing occurs in a micro-processor

Practice Questions and Answers

Chapter 2: Hardware and Software

Q11

Describe four characteristics of a supercomputer.

- They achieve very high temperature, so they require heat maintenance
- They have very little downtime
- They perform consistently and reliably
- They have very large number of processors
- They can run multiple operating systems at the same time
- They carry out multiple processes at the same time

Practice Questions and Answers

Chapter 2: Hardware and Software

Q12

Describe what is meant by the term MIPS.

- MIPS means Millions of Instructions Per Seconds
- They are used to measure mainframe performance
- They are a unit of measurement of processing power

Practice Questions and Answers

Chapter 9 - Modelling

- Q13** A car company uses simulations to test its cars.
Discuss the benefits and drawbacks of using computer simulations in this context.

Computer Simulations is when a Computer is used to imitate an event as it happens in the real world

Benefits

- Identified Cost Savings
- Drivers are not put in any physical danger
- Different Conditions can be simulated so there is no need to wait for natural occurrences
- Feedbacks can be visual overlays of previous tests
- Computer can more accurately measure the performance
- Testing can occur at multiple points in the development process

Drawback - lack of a realistic experience of the car
- Drivers may be reckless in simulations because of lack of real danger.

- Drawbacks - Can be expensive to create realistic simulation
- Simulated Scenarios may be inaccurate

Practice Questions and Answers

Chapter 6 - Digital Divide

- Q14** Identify two groups of people who can be negatively affected by the digital divide. For each group, suggest a way the digital divide can be reduced.

Groups

- People who live in cities (urban) and those in rural areas
- More and less industrially developed or technologically aware nations
- Well educated people and less well educated people
- Older people and younger people
- Rich people and poor people
- People with disabilities and the non-disabled

Ways to Reduce Digital Divide

- Invest in Infrastructure
- Provide Subsidies
- Provide digital training
- Drop-in centres support

Practice Questions and Answers

Chapter 10: Database and File Concept

Q15

Discuss the importance of referential integrity.

- It ensures that all data in a database remains consistent
- Describes the relationship between two tables
- It ensures that it is all up to date
- It ensures that all foreign keys are dependent on the matching primary key
- Gives user a warning if they try to delete parent data
- Helps to reduce redundant data

Practice Questions and Answers

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