**Computing for Natural Scientists COMP106**

**Main Examination**

**18 November 2013**

**School of Mathematics, Statistics and Computer Science**

**University of KwaZulu-Natal**

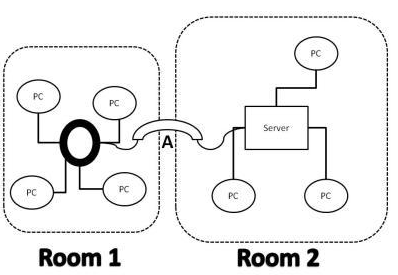
**Examiners:** Mrs R. Els and Dr M. Keet **Duration:** 3 hours

**Moderator:** Mr M. Gwetu **Marks:**100

**Instructions:**

* This paper consists of 23 pages. Please ensure you have them all.
* You MUST work in pencil.
* Your MUST shade in the appropriate blocks to indicate your name and student number.
* For each question shade in the appropriate block on the MCQ answer sheet.
* There are 100 questions in total.
* There is NO negative marking
* a correct answer earns you 1 mark.
* an incorrect answer earns you 0 marks.
* an unanswered question earns you 0 marks.

1. Software \_\_\_\_\_\_\_\_
   1. includes application software.
   2. includes operating system software.
   3. is planned, automated, step-by-step instructions.
   4. is used to turn data into information.
   5. all of the above are true.
2. An operating system \_\_\_\_\_\_\_
   1. acts as an interface between the user and the other components in a computer system.
   2. controls computer system resources.
   3. executes computer programs.
   4. is a software package.
   5. all of the above are true.
3. People who use computers to perform tasks or enhance their performance in the office are called
   1. end users
   2. programmers
   3. system analysts
   4. both b) and c)
   5. none of the above
4. Which of the following is the most common form of output (in the context of computers)?
   1. 35mm film
   2. Keyboard
   3. Paper
   4. Voice
   5. None of the above are correct.
5. The five steps: input, processing, output, storage, and distribution and communication, are all parts of \_\_\_\_
   1. the information processing cycle
   2. the information superhighway
   3. the Internet
   4. the web
   5. none of the above
6. Computers and their applications can be used for \_\_\_\_
   1. creating, gathering, and the storage of data.
   2. the packaging of information so that it is easier to understand, more attractive, or more useful.
   3. processing of raw data.
   4. recycling of information and using it as data in another processing step.
   5. All of the above.
7. The smallest data unit in the computer is the \_\_\_\_
   1. bit
   2. byte
   3. kilobyte
   4. mini-byte
   5. None of the above
8. Compared to primary memory, secondary memory of a computer is \_\_\_\_\_
   1. useful for backup
   2. more likely to fail
   3. permanent
   4. slower
   5. None of the above
9. The CPU consists of two main components:
   1. ALU and Control unit
   2. Processor and regressor
   3. RAM and ALU
   4. RAM and ROM
   5. None of the above
10. The \_\_\_\_\_\_\_\_ is a set of connections used to send data between the components *inside* the computer.
    1. Bus
    2. Channel
    3. Gateway
    4. Internet
    5. Modem
11. The output from the computer can be in the form of:
    1. Instructions to another device
    2. Sounds
    3. Videos and animations
    4. Words
    5. All of the above
12. Printed output on paper is called:
    1. Distribution copy
    2. Hard copy
    3. Main copy
    4. Soft copy
    5. None of the above
13. The disadvantage of fiber optic cable is the \_\_\_\_\_
    1. cost
    2. speed of transmission
    3. interference during transmission
    4. Both a and c
    5. a, b and c
14. In the diagram below, the computers in Room 1 are networked according to \_\_\_\_\_



* 1. a bus topology
  2. a daisy chain topology
  3. a hybrid topology
  4. a star topology
  5. None of the above

1. It is a good idea to back up your data because it can be destroyed by \_\_\_\_\_.
   1. Acts of nature (fire, earthquake)
   2. Human error
   3. Power fluctuations
   4. System (hardware) malfunctions
   5. All of the above
2. Anti-virus software will \_\_\_\_
   1. protect you from spyware
   2. give you 100% protection from viruses
   3. create new viruses
   4. do all of the above
   5. do none of the above
3. Which of the following is TRUE regarding computer viruses?
   1. They are programs that spreads malicious code.
   2. They propagate themselves by replication on the host.
   3. Their mechanism is generally hidden from users during replication.
   4. All of the above
   5. b and c only
4. Which of the following is required to decrypt an encrypted message?
   1. Decryptor
   2. Encryptor
   3. Cyphercryptor
   4. Key
   5. Cypherchain
5. The time interval between seeking for requested data on the hard disk and transferring the data to RAM is called \_\_\_\_
   1. Rotation time
   2. Access time
   3. Transfer time
   4. Latency time
   5. Access delay time
6. There are so-called buses (pathways through which the data flows) connecting various devices on the motherboard. Choose the best option.
   1. There’s a bus between the input and output devices
   2. There’s a bus between RAM and disk
   3. There’s a bus between CPU and RAM
   4. There’s a bus between CPU, RAM and output
   5. All of the above
7. Which of the following options lists two important components of the central processor?
   1. Control Unit and Addition/Logic Unit
   2. Control Unit and primary storage (RAM)
   3. Control Unit and Arithmetic/Logic Unit
   4. Arithmetic/Logic Unit and primary storage (RAM)
   5. Addition/Logic Unit and the Registers
8. Compared to primary memory, the secondary memory of a computer is
   1. permanent
   2. faster
   3. not recommendable for backup
   4. an optional component of a desktop computer
   5. b and d
9. What does it mean when someone boasts “I have a 2.4GHz machine!”?
   1. The size of the main memory is 2.4GHz
   2. The system clock rate of the processor is 2.4 billion cycles per second
   3. The network card supports a data transfer of 2.4 billion bytes per second
   4. The graphics card has a refresh rate of 2.4GHz for high-definition video
   5. None of the above.
10. Which of the following is true about digital storage devices?
    1. Must be able to store a minimum of 2 bits.
    2. Must be able to represent binary data.
    3. Must be able to work with Windows.
    4. Must be able to hold a minimum of 1 megabyte.
    5. None of the above.
11. Senzo is trying to copy a file called Journal.odt from a shared network directory in Linux to a directory called documents. The command he is using,

cp Journal.odt documents

gives an error. He types the command to get a long listing of his home directory, which looks like this:

drwxr-xr-x Senzo students 4096 Oct 15 18:56 documents

-rw------- Senzo students 60536 Oct 15 18:57 journal.odt

-rw------- Sally students 45030 Oct 15 19:03 Journal.odt

Which of the following is the reason why the copy is failing?

* 1. Senzo does not have read access to Journal.odt.
  2. Senzo does not have write access to the documents directory.
  3. In Linux, commands should all be typed in capital letters; Senzo should use CP, not cp, as his copy command.
  4. journal.odt is empty (i.e., it contains no data) and therefore cannot be copied.
  5. Journal.odt is corrupt, because the directory already had a file named journal.odt.

1. A filename is separated from its file name extension by a \_\_\_\_\_\_\_\_\_\_\_\_\_.
   1. Back slash (\)
   2. Colon (:)
   3. Forward slash(/)
   4. Period or dot (.)
   5. Any of the above
2. To keep related files together you \_\_\_\_\_\_\_\_\_\_.
   1. Embed them
   2. Give them the same extension
   3. Give them the same name
   4. Store them in the same directory/folder
   5. Use the same program to create the files
3. Which of the following shell commands and corresponding description is WRONG?
   1. rmdir – Remove a directory
   2. cp – Copy files or folders
   3. mv – Move/rename files or folders
   4. cd – Check current directory
   5. ls – List files in current directory
4. The figure below shows the directories/folders within the home directory in a Linux file system hierarchy. If you are currently in the user1 folder, what is the relative path to file1, a file in the folder dir3?

home

user1

user2

dir1

dir2

dir3

* 1. ../dir1/dir3/file1
  2. /dir1/dir3/file1
  3. /home/user1/dir1/dir3/file1
  4. dir1/dir3/file1
  5. user1/dir1/dir3/file1

1. What is the purpose of a fan in a computer?
   1. To prevent the CPU from overheating
   2. To keep the memory banks below room temperature
   3. To prevent the graphics card from overheating
   4. To keep the power supply in check
   5. None of the above
2. What forms part of the information processing cycle? Choose the best answer.
   1. Input, computation, output
   2. Storage and networking
   3. Computation, output, and printing
   4. Input, computation, printing
   5. Storage, networking, and output
3. Defragmentation means storing the whole files on the disk such that it occupies a contiguous segment on the disk. What is (are) the advantage(s) for doing so, if any?
   1. To prevent a file from becoming inaccessible due to being too fragmented
   2. Faster access to the data stored on disk
   3. It increases the amount of free disk space
   4. All of the above
   5. None of the above
4. Your website isn’t working, and it has something to do with access rights of the files and folders. Under Linux, the chmod command changes access rights to files and folders. From your home directory in the terminal, you get a listing, and for public\_html it looks like this:

drwxr--r-- logan students 4096 Oct 15 18:56 public\_html

However, everybody needs at least executable rights for public\_html and any files contained therein. Which command will achieve that?

* 1. Use chmod g+x public\_html/\*
  2. Use chmod o+x public\_html
  3. Use chmod a+x public\_html
  4. Use first chmod g+x public\_html then chmod o+x public\_html/\*
  5. Use first chmod go+x public\_html then chmod go+x public\_html/\*

1. To transfer files across the network from one machine to another, you can use
   1. SMTP
   2. FTP
   3. HTML
   4. LATEX
   5. SCH
2. Which of the following is an identifier on the network that is unique to a network card?
   1. Network card port number
   2. MAC address
   3. IP address
   4. Unique Resource Identifier
   5. NC code
3. Which of the following is an example of an IP address?
   1. 207.46.19.190
   2. a1:e4:33:h8:4d:9l:93:ga:4t
   3. 123-aa456-bbb-00
   4. john.doe@gmail.com
   5. www.ukzn.ac.za
4. From the following list, which is/are a component of the World Wide Web that makes the web work? Choose the best answers from the combinations listed further below.

(a) Web server

(b) HTTP

(c) Email

(d) Social networking sites

(e) URL

(f) HTML

Options:

* 1. a, b
  2. c, d
  3. a, b, d
  4. a, b, d, e
  5. a, b, e, f

1. The following is an incomplete URL.

http://www.slate

What kind of information is missing? Choose the best answer.

* 1. The country designation is missing
  2. The file extension is missing
  3. The file extension and the country abbreviation is missing
  4. At least the type of organization is missing
  5. b and d

1. The internet is controlled by\_\_\_\_
   1. the government of the USA
   2. the military
   3. a decentralized authority
   4. it is not controlled at all
   5. Microsoft
2. Which of the following is NOT connectivity hardware?
   1. Network card
   2. Ethernet cable
   3. Router
   4. Antenna
   5. None of the above: they all are
3. The process of transferring a file from the Internet is called:
   1. Downloading
   2. Pasting from a site
   3. Uploading
   4. Either a or b
   5. None of the above
4. The term bandwidth refers to \_\_\_\_\_\_\_\_\_.
   1. How fast your computer is.
   2. How much data can be sent through a connection.
   3. The amount of data in a multimedia file.
   4. The capacity of buses on the motherboard.
   5. None of the above
5. What does the acronym URL stand for?
   1. Universal Relational Link
   2. Universal Reformed Locator
   3. Uniform Resource Link
   4. Uniform Resource Locator
   5. Uniform Relational Locator
6. You can move from webpage to webpage in a browser by clicking on a hotspot, highlighted words, buttons, pictures, or icons. The pages are connected to each other via
   1. cyberlinks
   2. hyper-buttons
   3. hyper-icons
   4. hyperlinks
   5. All of the above
7. Which of the following are strategies to improve your search results? Choose the best combination from the following four options.
8. Select a specialized site, such as Google scholar
9. Specify the type of file, such as images or pdf
10. Use keywords instead of whole sentences phrased as a question
11. Build up a user-with-search profile and take advantage of your computed ‘filter bubble’
    1. a and b
    2. a, b, and c
    3. b and c
    4. b, c, and d
    5. a, b, c, and d
12. Consider the following URL

<http://www.microsoft.com/windows/index.html>

Select the best option:

* 1. The index.html file is inside the windows directory on the web server’s file system
  2. The protocol used to access the website is the hyper text transfer protocol
  3. The domain name indicates that the website is a commercial website
  4. a and b
  5. a, b and c

1. The practice of adding off-topic insulting comments to a page or blog is called \_\_\_
   1. tresspassing
   2. phishing
   3. sidelining
   4. trolling
   5. bashing
2. Which of the following is true about open source software?
   1. Only freeware is open source
   2. There is a menu option in the application to open the source
   3. It only works on a Linux machine
   4. It is for free if your time is worthless
   5. Anyone can modify the software
3. Web 2.0 constitutes a change over the ‘old’ World Wide Web. From the following list, select two items that are typical characteristics of Web 2.0.

(a) Read-only web page that you cannot comment on

(b) Openness and Collaboration

(c) Syndication and RSS feeds

(d) Email and the Network effect

(e) YouTube

(f) Search engines

Answer options:

* 1. a, b
  2. b, c
  3. b, d
  4. c, f
  5. d, e

1. Small files on your computer, saved by your browser, recording your visits to that site, are called \_\_\_\_
   1. stamps
   2. records
   3. cookies
   4. crackers
   5. trackers
2. When an operating system supports multi-tasking, this means that:
   1. the application you are using can do more than one thing at a time, such as writing a new email whilst sending another
   2. you can run (have open for use) more than one application at the same time
   3. the operating system can save your file to the hard disk and to your flash at the same time
   4. the operating system uses a queue for the multiple tasks you give it, instead of you having to give it single tasks one after another only when the former finished
   5. All of the above
3. The essential part of the Linux operating system is called the \_\_\_
   1. kernel
   2. terminal
   3. utility suite
   4. OpenOffice
   5. Core
4. Which of the following is/are OpenOffice commands and settings that do not modify the layout?
   1. Word count
   2. Measurement unit setting (e.g. from inch to cm)
   3. Spell checker
   4. Thesaurus
   5. None of a, b, c, and d change the layout
5. A backup program \_\_\_\_
   1. makes a copy of files you select
   2. returns you to the previous program
   3. undoes the last change you made to the file system
   4. None of the above
   5. a, b, and c
6. Moodle is an example of a \_\_\_\_\_
   1. Module Doodle System
   2. Document repository
   3. Course Material System
   4. Content Management System
   5. None of the above
7. A good first slide of you presentation contains \_\_\_\_
   1. the title, an optional subtitle, and author(s)
   2. the outline of your presentation
   3. the conclusions
   4. the main message
   5. none of the above
8. Which of the following web sites is specifically geared towards finding scientific papers?
   1. http://www.yahoo.com
   2. http://library.ukzn.ac.za.com
   3. <http://scholar.google.com>
   4. All of the above
   5. None of the above
9. When you choose to design a website, what should you do?
   1. Create a ‘storyboard’ with the pages for the topics and their links
   2. Choose a colour scheme
   3. Decide on a system for navigating the pages, such as a menu or `breadcrumbs'
   4. Decide what the principal purpose of the website is, such as for online shopping, for display of essays etc.
   5. All of the above
10. A browser has several functions. Among others:
    1. it allows you to edit html files
    2. it formats web documents for display on your screen
    3. it carries out a web search for you
    4. it is the only tool that gives a user access to the internet
    5. All of the above
11. A student searches on Google Scholar for information about “Bluetooth”.

The following is obtained among the list of results, of which there are reported to be about 222000:

Distributed topology construction of Bluetooth wireless personal area networks - ►yale.edu [PDF]

T Salonidis, P Bhagwat, L Tassiulas, R LaMaire - Selected Areas in Communications, IEEE Journal on, 2005 - ieeexplore.ieee.org   
... Distributed Topology Construction of Bluetooth Wireless Personal Area Networks ... Index Terms—Bluetooth, frequency hopping, scatternet, topology construction. ...   
Cited by 370 - Related articles - Web Search - BL Direct - All 49 versions

In how many other documents available online has this paper been referenced?

* 1. None
  2. It is impossible to say
  3. 49
  4. 370
  5. 222000

1. In terms of the structure of a typical academic paper, which of these represents an appropriate order of the different sections?
   1. Title, abstract, introduction, discussion, result and conclusion
   2. Title, abstract, introduction, method, result, and conclusion
   3. Title, abstract, results, method, and conclusion
   4. Title, introduction, abstract, results, discussion and conclusion
   5. Title, method, abstract, introduction, results, and conclusion
2. What is true about the conclusions section?

(a) It must include the main outcomes that can be substantiated by the results

(b) It must include a ‘future works’ paragraph

(c) Including a ‘future works’ paragraph is optional

(d) The conclusion section is actually just the same as the abstract

(e) Typically, one compares one’s results with related works

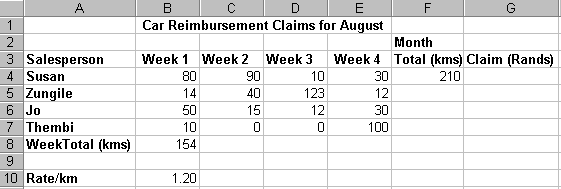
* 1. a only
  2. d only
  3. a and b
  4. a and c
  5. a, b, and e

1. There are rules regarding tables and figures. Which one of the following is correct?
   1. Figure caption normally is positioned below the figure
   2. A table caption normally is positioned below the table
   3. The obtained data must be shown both in a table and in a graph or figure
   4. Figures and tables do not have to be referenced in the text, as they speak for themselves
   5. All of the above
2. The commands to duplicate a selected block of text are
   1. Copy and Paste
   2. Copy and Replace
   3. Cut and Paste
   4. Delete and Paste
   5. Search and Replace
3. Which of the following is NOT a feature of OpenOffice Writer or MS-Word?
   1. Margins and page length can be adjusted as desired
   2. Spelling can be checked and modified through the spell check facility
   3. Provides tools such as data consolidation, goal seek, scenario etc.
   4. Multiple document/files can be merged
   5. None of the above
4. In word processing, improving the appearance of the document is called \_\_\_\_\_
   1. editing
   2. formatting
   3. retyping
   4. typing
   5. none of the above are correct.
5. Headers are printed \_\_\_\_
   1. at the end of each page
   2. at the end of the paragraph
   3. at the end of the reference
   4. at the top of each page
   5. All of the above
6. The greatest labour-saving aspect of an electronic spreadsheet is \_\_\_\_\_\_\_.
   1. automatic recalculation
   2. automatic error checking
   3. spell checking
   4. the ability to use labels and headings
   5. word wrap

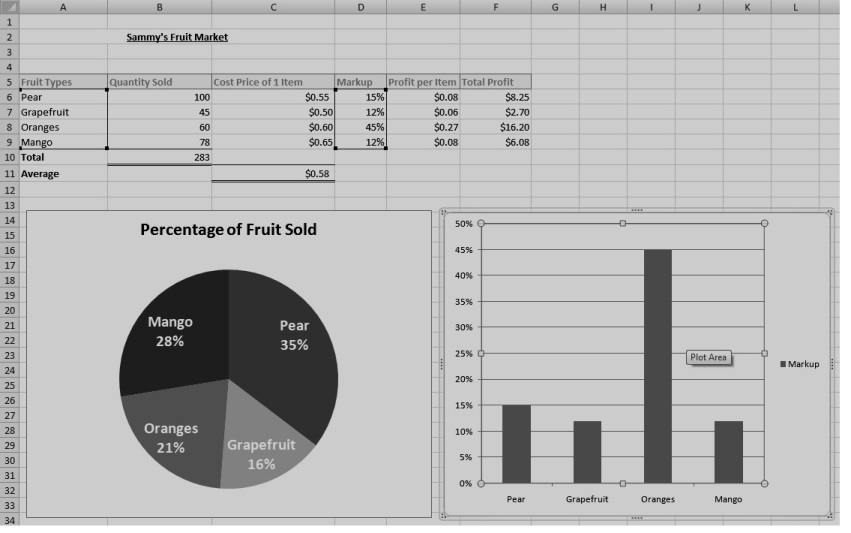
Consider the following spreadsheet for the next two questions

The spreadsheet below has been created to calculate the petrol claims of Salespeople for the month of August. Each salesperson is reimbursed at R1.20 per km travelled.

1. To calculate the total kilometers Susan travelled in a month, into cell F4 you would enter the formula



* 1. =sum(4)
  2. =sum(4:4)
  3. =sum(B4:E4)
  4. =sum(B4:F4)
  5. =sum(B4:F7)

1. G4 is the value in cell F4 multiplied by 1.20 (the value of cell B10). Assume you are going to enter a formula in cell G4 to do this and then copy this formula to cells G5 to G7. The correct formula to enter into G4 so you can copy and paste and get the correct values calculated in the other cells is:
   1. =$F$4\*$B$10
   2. =$F4\*B$10
   3. =F$4\*B10
   4. =F4\*$B10
   5. =F4\*B$10
2. Sammy runs a vegetable business and wants to keep track of how his business is performing. There are certain statistics that he would like to calculate. Sammy has created the spreadsheet which is displayed below.If Sammy used cell addressing for all his formulas throughout his spreadsheet, and he changed the value in cell **B6** from 100 to 200, then the following things will be affected and change:
   1. B10, C11, F6, Pie Chart and Bar Graph
   2. B10, F6
   3. B10, C11, F6 and Bar Graph
   4. B10, F6, and the Pie Chart
   5. B6, C6, D6, E6 and F6
3. Choosing the right graph to show your data means you did understand what you were measuring, hence that you did understand your experiment. What kind of graph should you choose when the data points on the (horizontal) x-axis are related in line with the dimension (such as time)?
   1. A pie graph
   2. A bar graph
   3. A line graph
   4. A stacked bar graph
   5. A landscape graph
4. 32. One can use a spreadsheet as a plain calculator with respect to the functions, but it has several powerful additional features. Is referencing a value by its cell address (e.g., D7) a useful feature?
   1. No, because it obfuscates a formula
   2. No, because it makes the formula longer
   3. Yes, because then one can write shorter formulae
   4. Yes, because if the value in the referenced cell is updated, then so is the value in the cell referencing that referenced cell.
   5. a and b
5. All HTML web pages are enclosed in:
   1. <PAGE> and </PAGE> tags
   2. <HEAD> and </HEAD> tags
   3. <BODY> and </BODY> tags
   4. <HTML> and </HTML> tags.
   5. <HTTP> and </HTTP> tags.
6. What is a cascading style sheet (css)?
   1. It is a file that holds attributes for the HTML document, specifying how the web browser should render elements
   2. It is a sheet in a spreadsheet document that is linked to other sheets in that document
   3. It is a template that one can load in OpenOffice Writer
   4. It is a document class in latex
   5. None of the above
7. When you put

<META name="keywords" content="microbiology, horizontal gene transfer,antibiotic resistance">

between the head tags in an index.html document, what advantage(s) does it have? Choose the best option.

* 1. The keywords are principally useful for managing your own files on your PC
  2. Those keyword are used for navigation between the different files on the website
  3. The search engines will show those terms in the results page as a quick summary of the contents of that page
  4. The search engines index pages more quickly and better with those keywords, making your page easier to find because it comes up higher in the search results
  5. c and d

1. Besides creating a web page in a text editor, such as notepad, there are other strategies to create webpages, notably to avoid writing the actual HTML tags. Which of the following

is/are such alternative approaches?

* 1. Save an OpenOffice Writer document as a web page with html file extension
  2. Use the WYSIWYG interface of a content management system
  3. Edit the html page directly in the browser
  4. a and b
  5. b and c

1. An advantage of using a latex editor compared to OpenOffice Writer to write documents is:
   1. The point-and-click features make it easy for novices to work with
   2. You see on screen how it will look like in print
   3. Document layout is provided in the class file, so you don’t have to waste time fiddling with the layout all the time and can focus on the content instead
   4. There are no bugs in latex
   5. There are no advantages to using latex over OpenOffice
2. Once you have written appropriate text in a LATEX editor, then to see it like it would be in print, you have to \_\_\_\_
   1. typeset the file
   2. open it in a browser
   3. copy it into OpenOffice Writer
   4. print it
   5. None of the above, it is already shown in nice printing view
3. To make the text “this is bold” appear in bold font in latex, you \_\_\_\_
   1. have to enclose it in the tags <b>this is bold<b>
   2. have to write \textbf{this is bold}
   3. have to enclose it in the tags <bold>this is bold<bold>
   4. have to write \bold{this is bold}
   5. type this is bold and highlight it
4. To arrange the tuples in query answer in alphabetical order based on FIRSTNAME, you would \_\_\_\_ the tuples.
   1. sort
   2. filter
   3. concatenate
   4. order
   5. arrange
5. The query language used most often for querying a relational database is \_\_\_\_
   1. SPARQL
   2. StruQL
   3. SQL
   4. RQL
   5. TQL
6. Consider databases. A primary key is \_\_\_
   1. the single field in a tuple that has a unique value
   2. one or more attributes that has/have together a unique value for each tuple in a table
   3. the cipher to encrypt the database
   4. the code that allows one database to connect to another
   5. None of the above
7. Which of the following is/are features of databases?
   1. Having a central repository of shared data
   2. Data is stored in a standardized form, enhancing syntactic interoperability
   3. Program-data independence
   4. a and b
   5. All of the above
8. What is a database report?
   1. It is a document that describes the usage statistics of the users
   2. It is a document that contains the list of executed queries
   3. It is a domain expert-friendly, presentable, rendering of a section of the data in the database, which easily can be printed and distributed
   4. It is a listing of attempted hacks and actual security breaches of the database
   5. It is a document that describes the resource usage and performance of the database
9. There are various database management systems. OpenOffice Base and MS Access are typical examples of \_\_\_\_
   1. entry-level small DBMSs
   2. desktop publishing
   3. powerful databases that scale up to handling gigabytes of data
   4. data suites
   5. none of the above
10. Which feature of OpenOffice Impress presentations software allows users to create a simple presentation without having to spend too much time on it?
    1. Animation
    2. Chart Wizard
    3. Presentation Wizard
    4. Quick transitions
    5. None of the above
11. Which feature of OpenOffice Impress presentation software or Powerpoint adds special effects to modify the appearing of the slides and the timing between each slide?
    1. Animation
    2. Color Schemes
    3. Handouts
    4. Notes
    5. Transition settings
12. What is an animation?
    1. A special effect used to introduce a slide in a slide show
    2. A way to get an object such as an image or text on a slide to move
    3. Letters
    4. Overheads
    5. The way one slide looks
13. In an HTML document, to create hyperlinked text “CLICK HERE” to link to http://www.google.com you would use the html code
    1. <a =”google.com”>CLICK HERE</a>
    2. <a href=”CLICK HERE”>”http://www.google.com”</a>
    3. <a href=”http://www.google.com”; “CLICK HERE”></a>
    4. <a href=”http://www.google.com”><font type=“hyperlink”>CLICK HERE</font></a>
    5. <a href=”http://www.google.com”>CLICK HERE</a>
14. An advantage of non-WYSIWYG document editors is that
    1. the format of the document and the content of the document are separated so if you want to change the format of the document this can be easily done.
    2. they are not prone to being infected with viruses.
    3. you can see exactly what your document will look like while you are working on it.
    4. b and c
    5. a, b and c
15. A disadvantage of non-WYSIWYG document editors is that \_\_\_\_
    1. they can postpone the POST during the bootsequence.
    2. they interfere with the form factor of the motherboard.
    3. they will only run on linux.
    4. you cannot print your document.
    5. you have to learn how to use a markup language in order to edit your document.
16. The following HTML code <b>text</b> will
    1. make the text appear in brackets
    2. make the text bold
    3. make the text a brown color
    4. not display the text since the <b> </b> tags ignore anything inside them
    5. underline the text
17. Which of the following tags is used to create an in text citation?
    1. \reference{}
    2. \citation{}
    3. \referencing{}
    4. \cite{}
    5. \citing{}
18. Which html tag is used to move to the next line?
    1. <newline>
    2. <p></p>
    3. <br>
    4. <linebreak>
    5. <\n>
19. Consider the following SQL statement:

SELECT LastName, ItemOrdered

FROM ORDERS, ANTIQUEOWNERS

WHERE ORDERS.OWNERID = ANTIQUEOWNERS.OWNERID

AND ORDERS.ITEMDESIRED like ‘chair’;

The ORDERS and ANTIQUEOWNERS are examples of:

* 1. records
  2. tables
  3. forms
  4. aliases
  5. subqueries

1. What is the outcome of the following query?

SELECT \*

FROM students

WHERE module = “COMP106” and year = 2013;

* 1. It retrieves all information of those students who are enrolled in COMP106 in 2013
  2. It retrieves all information about the COMP106 module of 2013
  3. It retrieves all information of those students who are enrolled on COMP106 in any given year, not only in 2013, because the “and” is not capitalized and what comes after that is just ignored
  4. It will result in an error, because you cannot use the \* in a SELECT statement
  5. None of the above

1. In a database containing a table named Orders, the SQL statement

SELECT \*

FROM Orders;

will display:

* 1. all records that start with a \* from the Orders table
  2. all the field names from the Orders table
  3. all the records, with all field data, from the orders table
  4. nothing as it is invalid
  5. only the records that contain a \* somewhere in the record from the Orders table

1. The SQL statement:

SELECT EmployeeNo

FROM EmployeeStatisticsTable

WHERE Salary >= 23000;

* 1. displays a subset of records from the EmployeeStatisticsTable
  2. uses logical operators
  3. is an example of a join statement
  4. is invalid
  5. displays all information about employees who earn R23000

1. Forms
   1. are created to allow data to be easily captured into the tables.
   2. make a database more user friendly
   3. can be used to enter, view, edit and delete data.
   4. an make data-entry more intuitive by arranging the fields on the
   5. screen to make it easier to move from one field to the next.