CAMEROON GENERAL CERTIFICATE OF EDUCATION BOARD
General Certificate of Education Examination

595 COMPUTER SCIENCE 1

JUNE 2013   **ORDINARY LEVEL**

Centre No. & Name	
Candidate No.	
Candidate Name	

595 COMPUTER SCIENCE 1: MULTIPLE CHOICE QUESTION PAPER

One and half Hours

INSTRUCTIONS TO CANDIDATES

Read the following instructions carefully before you start answering the questions in this paper. Make sure you have a soft HB pencil and an eraser for this examination.

1.   USE A SOFT HB PENCIL THROUGHOUT THE EXAMINATION.
2.   DO NOT OPEN THIS BOOKLET UNTIL YOU ARE TOLD TO DO SO.

Before the examination begins:

3.   Check that this question booklet is headed "**Ordinary Level – 595 Computer Science 1**"

4.   Insert the information required in the spaces above.

5.   Insert the information required in the spaces provided on the answer sheet using your HB pencil:
Candidate Name, Center Number and Name, Candidate Number, Subject Code and Paper Number.
Take care that you do not crease or fold the answer sheet or make any marks on it other than those asked for in these instructions.

How to answer the questions in this examination

6.   Answer **ALL** the **50** questions in this Examination. All questions carry equal marks.

7.   Each question has FOUR suggested answers: **A, B, C** and **D**. Decide on which answer is correct. Find the number of the question on the Answer Sheet and draw a horizontal line across the letter to join the square brackets for the answer you have chosen.
For example, if **C** is your correct answer, mark **C** as shown below:

[A] [B] [C] [D]

8.   Mark only one answer for each question. If you mark more than one answer, you will score a zero for that question. If you change your mind about an answer, erase the first mark carefully, then mark your new answer.

9.   Avoid spending too much time on any one question. If you find a question difficult, move on to the next question. You can come back to this question later.

10.   Do all rough work in this booklet, using, where necessary, the blank spaces in the question booklet.

11.   Mobile phones are **NOT** allowed in the examination room.

12.   **You must not take this booklet out of the examination room. All question booklets and answer sheets will be collected at the end of the examination.**

_____ Turn Over

1. Which one of the following is true about random access?
   A   data is retrieved randomly before rearranging.
   B   data is retrieved randomly and the process is very slow.
   C   time required to retrieve data is independent of its location in the medium.
   D   data retrieval starts at a point and moves randomly.

2. The fastest and most powerful computer category is:
   A   personal computers
   B   mini computers
   C   mainframe computers
   D   super computers

3. The brain is to a man as _____ is to a computer.
   A   the motherboard
   B   the processor
   C   memory
   D   the hard drive

4. In a client-server network model:
   A   the client makes requests for resources from the server.
   B   the client provides resources requested by the server.
   C   the server initiates communication with any of the clients.
   D   the server makes request for resources from the client.

5. Convert the binary number 111001 to a number in decimal.
   A   41
   B   59
   C   37
   D   57

6. Identify a device below which will NOT need a device driver for installation.
   A   Digital camera
   B   USB flash
   C   Printer
   D   Motherboard

7. The underlined portions of the following employee email address ebotjohnny@ minesec.cm are known as:
   A   Employee ID and Work ID.
   B   User ID and Work ID.
   C   User ID and domain name.
   D   Employee ID and domain name.

8. During the feasibility studies in the design of a new information system, which one of the following should be done?
   A   Purchase all the new hardware that would be needed.
   B   Train the users on using the new system.
   C   Test the software that will be used.
   D   Estimate the cost of the new software and appropriate hardware.

9. By not exposing the individual information of its customer, a company is guarding against issues related to:
   A   privacy
   B   piracy
   C   copyright
   D   illegal use

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10. A transmission medium used for wide bandwidth line-of-sight communication is:
   A   twisted pair
   B   coaxial cable
   C   microwave
   D   satellite

11. A person who manages the development of software is known as:
   A   programmer
   B   software designer
   C   software analyst
   D   systems analyst

12. Optical disk drives get their name from the fact that they require _____ for their operation
   A   Natural light
   B   Light from a light emitting diode
   C   Laser light
   D   Optical lens

13. Efficiency of software refers to:
   A   its use of memory and time
   B   its ability to give expected results
   C   its ability to recover from minor input errors
   D   its ability to function correctly on different platforms

14. A hardware or software device used to restrict access to data in a network is a(n):
   A   spam filter
   B   antivirus
   C   extranet
   D   firewall

15. _____ contains a battery which enables the computer to keep data and time current.
   A   BIOS
   B   CMOS
   C   Time
   D   Calendar

16. A classification of data according to the types of operations that can be performed on the data is:
   A   data processing
   B   data type
   C   data structure
   D   data transfer

17. One DISADVANTAGE of computer usage is that _____
   A   computer monitors are very slow.
   B   the components of computers are unreliable.
   C   prolonged computer use can lead to injuries.
   D   most computers cannot communicate directly.

18. The "what-if" analysis feature in a spreadsheet software is used to:
   A   depict the data in a spreadsheet in graphical form.
   B   organize the data in a spreadsheet.
   C   review spelling of words in a spreadsheet.
   D   change values in a spreadsheet to identify the effects of the change.

Turn Over

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19. In a System Development Life Cycle, the first step is:
   A   Analysis
   B   Problem identification
   C   Design
   D   Documentation

Study the spreadsheet table below and answer Questions 20 and 21.

	A	B	C	D	E
1	No.	Items	Quantity	Unit Cost	Total Cost
2	1	Tray of eggs	2	1600	3200
3	2	Loaf of Bread	4	300	1200
4	3	Bottle of milk	2	500	1000
5	4	Pack of coffee	1	1500	1500
6	5	Total			

20. The cell reference of the label "Total Cost" is:
   A   E6
   B   6E
   C   1E
   D   E1

21. The formula for calculating the total cost of a tray of eggs is:
   A   =(C2 * 2D)
   B   =(2C * 2D)
   C   =(2C * D2)
   D   =(C2 * D2)

22. What is the best categorization for a joystick?
   A   Output device
   B   Input device
   C   I/O device
   D   Storage device

23. Which of the following is the most appropriate definition of an intranet.
   A   A network designed to serve several organizations
   B   A network designed for an organization and that can never be accessed by members of another organization
   C   A network designed primarily for an organization although access can sometimes be given to members of another the organization
   D   A Network that serves managers and personnel of an organization

24. The facility in a word processor software that automates tasks such as indenting a block of text or adding a hyperlink to web address is known as:
   A   auto format
   B   auto correct
   C   smart tags
   D   macros

25. A Gantt chart typically represents:
   A   project estimated budget
   B   project risk factors
   C   project critical path
   D   project milestones

26. HTML stands for:
    A   Hypertext Markup Language
    B   Hypertext Makeup Language
    C   Hypermedia text Makeup Language
    D   Hypermedia Markup Language

27. The part of software through which a user interacts with a computer system is known as:
    A   On screen keyboard
    B   GUI
    C   Command line
    D   User interface

28. A program that reads and executes source code one line at a time and does not create an executable file that can run independently:
    A   Compiler
    B   Interpreter
    C   Assembler
    D   Decoder

29. A nibble is equivalent to:
    A   2 bytes
    B   8 bits
    C   2 bits
    D   half a byte

30. An algorithm should be "unambiguous". The term unambiguous in this statement means that an algorithm should:
    A   be able to tell when an error is made.
    B   be consistent in what it does.
    C   have the same interpretation to everyone.
    D   have a starting and an ending instruction.

31. A printer prints normally on one computer but fails to print when connected to a second running computer. What should the user look out for?
    A   The power supply to the second computer.
    B   Call the manufacturer of the printer.
    C   Verify if the driver of the printer is installed on the second computer.
    D   The ink in the printer is insufficient.

32. Which of the following is a function of an operating system?
    A   Processing of data
    B   Managing memory
    C   Downloading files
    D   Updating antivirus

33. A computer program is considered portable if:
    A   it is small in size
    B   it works on different platforms
    C   it can be stored on diskettes
    D   none of the above

Turn Over

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34. How many megabytes are there in 4 terabytes?
- A 4×2^{20}
- B 4×2^{10}
- C 4×2^{-20}
- D 4×2^{-10}

35. The communication mode that supports two-way traffic but operates only in one direction at a time is said to be
- A simplex
- B asynchronous
- C half-duplex
- D duplex

36. In word processing, the process of making changes to the contents of a document is known as
- A editing
- B formatting
- C correcting
- D spell checking

37. The process of converting signals from a computer to a form that can be transmitted over a telephone line is called:
- A Modulation
- B Demodulation
- C Multiplexing
- D Demulplexing

Questions 38 and 39 are based on the following algorithm:
1. set N to 3
2. set sum to 0
3. set x to 1
4. while $x <= N$
5. set sum to sum + x
6. set x to $x + 1$
7. endwhile
8. print sum

38. What programming construct is used in line 4?
- A Branch
- B Sequence
- C Loop
- D Recursion

39. What is the output of the algorithm?
- A 0
- B 6
- C 0, 1, 2, 3
- D 1,3,6

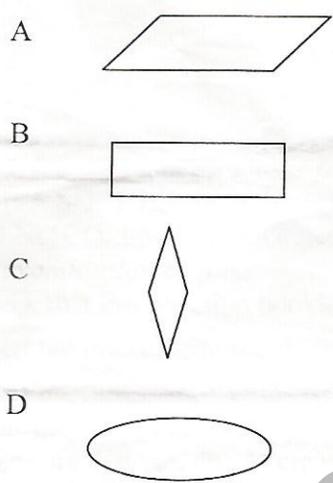40. Suitable data for a biometric system is:
- A population of a country
- B bank account number
- C password
- D fingerprint

41. The Boolean data type has:
   - A only one value
   - B only two values
   - C only three values
   - D as many values as the programmer deems necessary

42. The most appropriate software that a school needs to keep all necessary information about all its students is a:
   - A word processor software
   - B spreadsheet software
   - C presentation software
   - D database management software

43. A technician buys a piece of software licensed for use in 5 computers. He installs it on 7 computers in his company. What crime has he committed?
   - A software fraud
   - B software piracy
   - C breach of trust
   - D information theft

44. The statement "Enter the value of N" is suitable for which of the following flow chart symbols:

   A

   B

   C

   D

45. Which one of the following technologies is characteristic of the fourth generation computers?
   - A Large-scale integrated circuits
   - B Microprocessor
   - C Magnetic tape
   - D Vacuum tubes

46. The electro-mechanical equipment that constitutes a computer is called:
   - A Components
   - B Electromechanics
   - C Hardware
   - D Firmware

47. One societal problem that often arises from computers in a network is:
   - A client-server computing
   - B resource sharing
   - C communication speed
   - D privacy issues

Turn Over

48. A blog is a type of website. The word "blog" is another name for:
    - A   binary logs
    - B   brief logs
    - C   web log
    - D   binary logarithms

49. _____ is an example of software suite.
    - A   Windows XP
    - B   MS publisher
    - C   Windows
    - D   MS office

50. Which one of the following is a tool that provides multimedia interface access to resources, information and services to users on the Internet?
    - A   WWW
    - B   HTTP
    - C   URL
    - D   FTP