HOLY INFANT HIGH SCHOOL MELEN-YAOUNDE

Mock General Certificate of Education Examination

0796 INFORMATION AND COMMUNICATION TECNOLOGY 1

A

MARCH 2024   **ADVANCED LEVEL**

Centre Number	
Centre Name	
Candidate Identification No.	
Candidate Name	

Mobile phones are not allowed in the examination room.
MULTIPLE CHOICE QUESTION PAPER
One and a 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 -0595 Computer Science 1**"
4.   Fill in the information required in the spaces above.

How to answer the questions in this examination
5.   Answer **ALL** the 50 questions in this Examination. All questions carry equal marks.
6.   **Calculators are allowed.**
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] [C̶] [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 one question. If you find a question difficult, move on to the next question. You can come back to this question later.

At the end of this examination, the invigilator shall collect the question booklet after. DO NOT ATTEMPT TO LEAVE THE EXAMINATION HALL WITH IT

1) The computer that allows more than one user to work at the same time is known as a:

A	Mainframe computer
B	Embedded computer
C	Micro computer
D	Multi-programmed computer

2) _____ is the technological basis on which the Third-Generation computers were built:

A	Transistors
B	Vacuum tube
C	Microprocessor
D	Integrated circuits

3) A computer that exists in a system that cannot be reprogrammed by the user is:

A	Tablet computer system
B	Embedded computer system
C	Handheld computer system
D	System access control

4) The De Morgan law for the logic AND states that $\overline{A.B} =$:

A	$\overline{A} + \overline{B}$
B	$A + \overline{B}$
C	$\overline{A} + B$
D	$\overline{A} + \overline{B}$

5) Which of the following is NOT a function of an operating system?

A	Providing user interface
B	Memory management
C	Executing program instructions
D	System access control

6) A chip in the computer that contains essential information in a computer such as the date and time is:

A	CMOS
B	BIOS
C	RAM
D	ROM

7) Which file format will you use for publishing and distributing electronic text documents?

A	.mpeg
B	.jpeg
C	.pdf
D	.wav

8) A document created in an application package which could be used over and over by many users for the same purpose is known as:

A	Wizard
B	Template
C	Draft
D	Form

9) The check by computers to ensure that data entered into a database is sensible is known as:

A	Integrity check
B	Verification
C	Validation
D	Redundancy check

10) Which of the following application packages would be the most appropriate for representing information on charts and performance calculations:

A	Presentation packages
B	Database packages
C	Word processing packages
D	Spreadsheet packages

11) Which of the following is an advantage of a vector-based graphics format?

A	It allows graphs to be placed in a vector form
B	It is device independent
C	It allows vectors to be used to draw graphs
D	It tolerates straight line graphs

12) The act of gaining unauthorized access by use of a network to people's computer is known as:

A	Hacking
B	Surfing
C	Scamming
D	Spoofing

13) Software designed to meet the needs of a particular organization is called:

A	Generic
B	Surfing
C	Integrated
D	Bespoke

14) One way of limiting piracy of intellectual property is by:

A	Use of antivirus software
B	Using encryption
C	Enforcing legislation
D	Use of firewall

15) An information system that provide periodic and predetermined reports that summarizes information only is called:

A	MIS
B	GIS
C	HIS
D	DDS

16) An information system consists of:

A	Software and Hardware
B	People, software and Hardware
C	People, data, machine and procedure
D	People, data, software and procedure

17) An expert system that is used in organization to manage daily business activities can be also be termed as a:

A	GIS
B	DSS
C	MIS
D	TPS

18) A linear list whose elements are inserted and deleted in a last-in-first-out order is a:

A	Stack
B	Queue
C	Hash table
D	Binary tree

19) Which of the following is sin the right order of time measurement?

A	Picoseconds – nanoseconds – microseconds
B	Nanoseconds – picoseconds – microseconds
C	Microseconds – nanoseconds –picoseconds
D	Microseconds – picoseconds – nanoseconds

20) Which of the following is NOT true about arrays?

A	Access elements by an index
B	Sort the elements
C	Can hold element of the same type
D	Can hold elements of different types

21) How many KB (as used in everyday speaking) are in 1.5GB?

A	1500
B	15000
C	150000
D	1500000

22) The technique of developing a system model and testing to make adjustments until an acceptable product is realized is known as:

A	Try-by-error
B	Flow charting
C	Waterfall model
D	Prototyping

23) Some programming languages are said to be high level because:

A	Codes are written in a form that the computer can easily execute
B	Programmers easily write codes using them
C	They are cheaper to design
D	They cannot be used to write programs for difficult tasks

24) A module in a system is said to be reusable if the module is:

A	Independent of the system
B	Depends only on a few modules in the system
C	Iteratively defined
D	Recursive

25) A data communication method in which bits are transmitted through separate channels simultaneously is termed:

A	Parallel data transmission
B	Serial data transmission
C	Simplex data transmission
D	Asynchronous transmission

26) Devices in a network indicate their connectivity during data transmission by:

A	Buffering
B	Handshaking
C	Signaling
D	Interrupts

27) Which is a data transmission method by which signals from several lines are made to be transmitted through a single line?

A	Serial transmission
B	Broadband transmission
C	Switching
D	Multiplexing

28) The main role of a repeater in a network is:

A	Separate a signal stream of signals into separate streams
B	Select the best path for network packets
C	Boost the strength of signals to cover long distances
D	Receive send signals only to requesting computers in a network

29) _____ controls the flow of each character in asynchronous transmission mode:

A	Error control bits
B	Start-stop bits
C	Parity bits
D	Check-sum bits

30) The cheapest means by which a group of students found in different geographic locations can exchange views through the internet is by:

A	e-mail
B	Forum
C	Videoconference
D	Skype

31) The topology with the greatest fault tolerance is:

A	Mesh
B	LAN
C	Ring
D	Bus

32) A deice that connects computers and forwards data packets from one network segment to the other of different platforms is a:

A	Hub
B	Bridge
C	Switch

D	Router

33) The bandwidth of internet connection in a public cybercafé suddenly becomes congested. One possible reason is:

A	Poor weather
B	Number of users
C	Virus activity
D	Poor network design

34) If a laptop is to have internet connection through a LAN with internet facilities then:

A	The laptop needs an IP address
B	The user must be given a password
C	The service provider must be contacted
D	The modem must be used to connect the laptop to the LAN

35) The protocol used to receive electronic mail over the internet is:

A	TCP/IP
B	SMTP
C	FTP
D	VOIP

36) The buying and selling of stocks over the internet is called:

A	E-commerce
B	E-shopping
C	E-banking
D	E-trading

37) Which is the correct order of the stages of the SDLC?

A	Analysis, Implementation, Design, Maintenance
B	Design, Analysis, Support, Implementation
C	Analysis, Design, Implementation, Support
D	Coding, Support, Evaluation, Maintenance

38) The phase in a system development life cycle where requirements are first identified is:

A	Feasibility studies phase
B	Analysis phase
C	Implementation phase
D	Design phase

39) A practice that enhances understanding of algorithm is:

A	Use of capital letters
B	Use of good language
C	Use of programming words
D	Use of comments

40) Algorithms are different from codes in that:

A	They can be easily executed by the computer
B	They are easily understood by non-programmers
C	They are shorter than codes
D	They have a style of presentation

41) Which of the following control structures is NOT a loop structure?

A	IF-THEN statement
B	REPEAT statement
C	WHILE statement
D	FOR statement

42) Start

> *Get an integer, x*
> *Get another integer, y*
> *If x<y then*
>> *Take y to be y-2*
> *Else*
>> *Take x to be y*2*
> *Endif*
> *Print x, y*

Stop

If x = 3 and y = 7 then the output is:

A	14, 5
B	14, 1
C	3, 5
D	3, 7

43) An example of an object-oriented programming language is:

A	Turbo Pascal
B	C#
C	Java
D	Fortran

44) In programming, what specifies the order in which a computer will execute each line of software code?

A	Switch statement
B	Control structure
C	Conditional statement
D	Syntax structure

45) Which of the following is true about functional programming?

A	It is used to calculate using mathematical functions
B	It focuses on what has to be done rather than on how it is done
C	It is used in programming functions
D	Its codes are made up of mostly functions

46) The structured approach of writing programs using routines is beneficial in that:

A	It makes programs to be easily understood by non-programmers
B	Routines can be tested in isolation before being added to larger programs
C	It generates output after each statement for easy understanding
D	Programs can run even when there are errors

47) Which of the following may not be helpful to a
    project manager in the execution of a project?

A	PERT chart
B	Scheduling software
C	Data flow diagrams
D	Gantt chart

48) Some tasks can be extended for a number of days
    without affecting the finished day of a project,
    such a task is known as:

A	Slack task
B	Floating task
C	Critical task
D	Extended task

49) In HTML, the tags are used to create:

A	Ordered list
B	Bulleted list
C	Lines of text
D	Indentation

50) To avoid unnecessary duplication of the same data
    in a database:

A	We have to normalize the database
B	We have to query the report generator
C	Avoid using tables with so many fields
D	Proof read any data before input into the database