

REPUBLIQUE DU CAMEROUN
Pace Travail-Peace
ATVE
 MINISTRE DES ENSEIGNEMENTS SECONDAIRES
 BUREAU D'APPUI À L'ACTION PÉDAGOGIQUE
 ANTENNE RÉGIONALE DU NORD OUEST
 BP 2183 MANKON BAMENDA
 TEL 233 362 209
 Email: nbamenda@yahoo.co.uk



REPUBLIC OF CAMEROON
Peace-Work-Development
MINISTRY OF SECONDARY EDUCATION
TEACHERS' RESOURCE UNIT
 REGIONAL BRANCH FOR THE NORTH WEST
 P.O. BOX 2183 MANKON BAMENDA
 TEL 233 362 209
 Email: nbamenda@yahoo.co.uk

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The Teachers' Resource Unit and the Regional Inspectorate of Pedagogy, in collaboration with COSTA	SUBJECT CODE NUMBER 0796	PAPER NUMBER 1
GENERAL CERTIFICATE OF EDUCATION AND ADVANCED TECHNICAL AND VOCATIONAL EDUCATION REGIONAL MOCK EXAMINATION	SUBJECT TITLE INFORMATION AND COMMUNICATION TECHNOLOGY	
CANDIDATE NAME: _____ CANDIDATE NUMBER: _____ CENTRE NUMBER: _____		
ADVANCED LEVEL	DATE Wednesday 18th March 2020 AFTERNOON	

Time Allowed: One and a half hours
INSTRUCTIONS TO CANDIDATES:

Mobile phones are **NOT ALLOWED** in the examination room.

1. USE A SOFT HB PENCIL THROUGHOUT THIS 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 marked "Advanced level—0796 code and subject title—ICT Paper 1"
4. Insert the information required in the spaces above
5. Without opening the booklet, pull out the answer sheet carefully from inside the front cover of this booklet. 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.
6. Insert the information required in the spaces provided on the answer sheet using your HB pencil.

Candidate Name, Centre Number, Candidate Number, Subject Code Number, and Paper number

How to answer questions in this examination:

7. Answer ALL the 50 questions in this examination. All questions carry equal marks.
8. Non-programmable calculators are allowed.
9. For each question there are four suggested answers: A, B, C and D. Decide 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]
10. Mark only one answer for each question. If you mark more than one answer, you will score zero for that question. If you change your mind about an answer, erase the first mark carefully, and then mark your new answer.
11. Avoid spending much time on any question. If you find a question difficult, move to the next question. You can come back to this question later.
12. Do all rough work in this booklet using, where necessary, the blank spaces in the question booklet.
13. You must not take this booklet and answer sheet out of the examination room. All question booklets and answer sheets will be collected at the end of the examination.

1. Given the following algorithm

$J \leftarrow 5$

$K \leftarrow J$

$J \leftarrow J + K$

$K \leftarrow J + 3$

Display K

The value displayed for K is?

- A. 10
- B. 11
- C. 13
- D. 14

2. Which of the following algorithms satisfies the requirement of asking the user to input two numbers, calculate the average and display the result.

- A. Display 'Enter two numbers'
Input a, b
 $C \leftarrow (a+b)/2$
Display C
- B. Input a, b
 $C \leftarrow (a+b)/2$
Display c
- C. Display 'Enter two numbers'
Input a,b
 $C \leftarrow a+b/2$
Display C
- D. Input a, b
 $C \leftarrow a+b/2$
Display C

3. Which of the following terms is not used to describe the process of manually going through a program looking for errors

- A. Tracing
- B. Dry run
- C. Debugging
- D. Documentation

4. An OR gate has 4 inputs. One input is high and the other three are low. The output is

- A. Low
- B. High
- C. alternately high and low
- D. may be high or low depending on relative magnitude of inputs

5. PHP files have a default file extension of ____

- A. .html
- B. .xml
- C. .php
- D. .ph

6. Which one of the following databases has PHP supported almost from the beginning?

- A. Oracle Database
- B. SQL
- C. SQL+
- D. MySQL

7. Which one of the following statements is used to create a table?

- A. CREATE TABLE table_name (column_name column_type)
- B. CREATE table_name (column_type column_name)
- C. CREATE table_name (column_name column_type)
- D. CREATE TABLE table_name (column_name column_type)

8. PHP is a

- A. Loosely typed language
- B. Tightly typed language
- C. Server typed language
- D. Client typed language

9. With reference to multimedia elements, pick the odd-one out from the following.

- A) Graphics
- B) Animation
- C) Video Script
- D) Audio

10. Which of the following file formats has a smaller file size: WAV, MP3 and MP4?

- A. WAV
- B. MP3
- C. MP4
- D. Both A and B are of equal size

11. In which of the following operations is the scheduler not called into play?

- A. Process requests for I/O
- B. Process finishes execution
- C. Process finishes its time allocated
- D. All of the above through

12. The command to remove a table - customer from a database is

- A. REMOVE TABLE CUSTOMER
- B. DROP TABLE CUSTOMER
- C. DELETE TABLE CUSTOMER
- D. UPDATE TABLE CUSTOMER

13. Which of the following is not a layer of TCP/IP protocol?

- A. Application Layer
- B. Session Layer
- C. Transport Layer
- D. Internetwork layer

14. One protocol used for translating IP addresses to MAC addresses is?

- A. DHCP
- B. DNS
- C. ARP
- D. UDP

15. Programs and data to be used by the computer are available in

- A. Output unit
- B. Processing unit
- C. Input Unit
- D. Storage unit

16. A Special software to create a job queue

- A. Interpreter
- B. Linkage editor
- C. Spooler
- D. Drive

17. Social media marketing has emerged as an important category of digital marketing. Which of the following best describes this?

- A. Creating and managing long-term arrangements to promote online services on third party websites
- B. Monitoring and facilitating customer-customer interaction and participation throughout the web to encourage engagement with a company and its brands

C. Using online ads such as banners to achieve brand awareness and encourage click through
D. None of the above

18. The E-commerce domain that involves business activity initiated by the consumer and targeted to business is known as

- A. Business to Business (B2B)
- B. Consumer to Consumer (C2C)
- C. Consumer to Business (C2B)
- D. Business to Consumer (B2C)

19. What is the octal equivalent of the binary number 111010?

- A. 81
- B. 72
- C. 71
- D. None of above

20. All of the following provide intranet security except

- A. data encryption
- B. user authentication
- C. firewall
- D. data compression

21. Select the correct statement from the following.

- A. The use of the word "cloud" makes reference to the two essential concepts
- B. Cloud computing abstracts systems by pooling and sharing resources
- C. cloud computing is nothing more than the Internet
- D. All of the mentioned

22. Information systems that monitor the elementary activities and transactions are...

- A. Management level system
- B. Operational level system
- C. Knowledge level system
- D. Strategic level system

23. The person who ensures that systems are developed on time, within budget, and with acceptable quality is a

- A. systems designer
- B. project manager
- C. systems owner
- D. systems builder

24. The task of developing a technical blueprint and specifications for a solution that fulfills the business requirements is undertaken in the following phase of the system development process

- A. system initiation
- B. system implementation
- C. system analysis
- D. system design

25. Projections and responses to queries are Information output characteristics associated with

- A. Decision Support System (DSS)
- B. Management Information System (MIS)
- C. Executive Support System (ESS)
- D. Transaction Processing System (TPS)

26. Who is the inventor of "Difference Engine"?

- A. Allen Turing
- B. Charles Babbage
- C. Simon Cray
- D. Augusta Ada Lovelace

27. Which Data structure has the FIFO principle?

- A. Stack
- B. Queue
- C. Linked list
- D. Array

28. Programming based on stepwise refinement process is

- A. Fine
- B. Procedural
- C. C programming
- D. Structural

29. Which of the following storage media uses laser technology to store data

- A. Floppy disk
- B. Magnetic tape
- C. CD ROM
- D. Hard disk

30. The technology used to read pencil or write on a multiple choice answer sheet is

- A. OCR
- B. OMR
- C. POS
- D. MICR

31. An example of multitasking is

- A. Doing a background save while typing
- B. Allowing many users to use the same program
- C. Allowing one user to use a program
- D. Operating one program by many users

32. An airline reservation is an example of

- A. Batch processing
- B. Real time processing
- C. Interactive processing
- D. Distributed processing

33. Which of the following is not a type of transmission medium?

- A. Coaxial
- B. Twisted pair
- C. Modem
- D. Microwave

34. Which of the following does not facilitate the transmission of data between adjacent buildings?

- A. MAN
- B. Hotspot
- C. LAN
- D. Bluetooth

35. Which one of the following models is not suitable for accommodating changes?

- A. Spiral model
- B. Prototyping Model
- C. RAD Model
- D. Waterfall Model

36. Which of the following is not the primary objectives in the Preliminary investigation of system development?

- A. Assess cost and benefit of alternative projects
- B. Determining the size of the project
- C. Preparing the SRS to cover all the system specifications
- D. Report finding to the management with recommendation to accept or reject the proposal

37. "Robustness" answers which of the following descriptions?

- A. CASE tools used to support the process activities
- B. Process errors are avoided or trapped before they result in product errors
- C. Defined process is acceptable and usable by the engineers responsible for producing the software
- D. Process continues in spite of unexpected problems

38. Software Testing with real data in a real environment is known as

- A. alpha testing
- B. beta testing
- C. regression testing
- D. none of the mentioned

39. You are a lead developer of a software company and you are asked to submit a project /product within a stipulated time-frame but within cost barriers, which model is most suitable?

- A. Waterfall
- B. Spiral
- C. RAD
- D. Incremental

40. A table that the operating system uses to locate files on a disk is

- A. NTFS
- B. ROUND ROBIN
- C. FAT
- D. DATA SHARING

41. To maintain the integrity of transmitted data between two network computers, what is added to the transmitted data?

- A. character code
- B. parity bit
- C. hatch number
- D. network address

42. The performance of a system is most affected by

- A. monitor size
- B. hard drive size
- C. CPU size
- D. the RAM size

43. A chip in the computer that stores essential information such as time and date is

- A. BIOS
- B. CMOS
- C. RAM
- D. ROM

44. In binary, multiplying, 111111 by 111 gives

- A. 111100111
- B. 101011110
- C. 110111001
- D. 101010101

45. RAD stands for

- A. Relative Application Development
- B. Rapid Application Development
- C. Rapid Application Document
- D. None of the mentioned

46. Choose the correct combination of a good coded program

- A. Usability, Reliability, Robustness, Flexibility
- B. Availability, Reliability, Maintainability, Usability
- C. readability, robustness, Usability, Accuracy
- D. Accuracy, robustness, Testability, Usability

47. The modification of the software to match changes in the ever changing environment, falls under which category of software maintenance?

- A. Corrective
- B. Adaptive
- C. Perfective
- D. Preventive

48. An iterative process of system development in which requirements are converted to a working system that is continually revised through close work between an analyst and user is called

- A. Waterfall model
- B. Iterative model
- C. Spiral model
- D. None of these above

49. A step by step instruction used to solve a problem is known as

- A. Sequential structure
- B. A List
- C. A plan
- D. An Algorithm

50. Which of the following life cycle models cannot be chosen if the development team has less experience on similar projects?

- A. Spiral
- B. Waterfall
- C. RAD
- D. Iterative Model

STOP.

NOW GO BACK AND CHECK YOUR WORK