MARKING GUIDE Jganda Certificate of Education COMPUTER 840/1 uly/August 2023 SECTION A (One mark each) C 17. B 13. C C. \mathbf{B} 5. 10. C 18. C. B 14. B Á 6. D 19. -D A 11. B 15. B C 7. B 20. C 16. C 12. C D 8. 4. C SECTION B (60 MARKS) Analog computers use a continuous signal for its operations whereas a digital 21. (a) Binary digits (2 marks) computer uses a discrete signal for its operations. Characteristics of third generation computers. (b) used integrated circuits for processing. - Introdo of mini compa used semi-conductor memory Small size than previous generation use of high level programming languages improved faster operations and more dependable output. · Lise Wed magnetic disks for storage · Networking · Parallel processing · Introdu of as · Use of heywards for input and monitor for output 3 marks) Qualities of good information (c) Precise and concise Relevant Effective -complete - upto date Feedback Clear

(ii)

Examples of data

Symbols

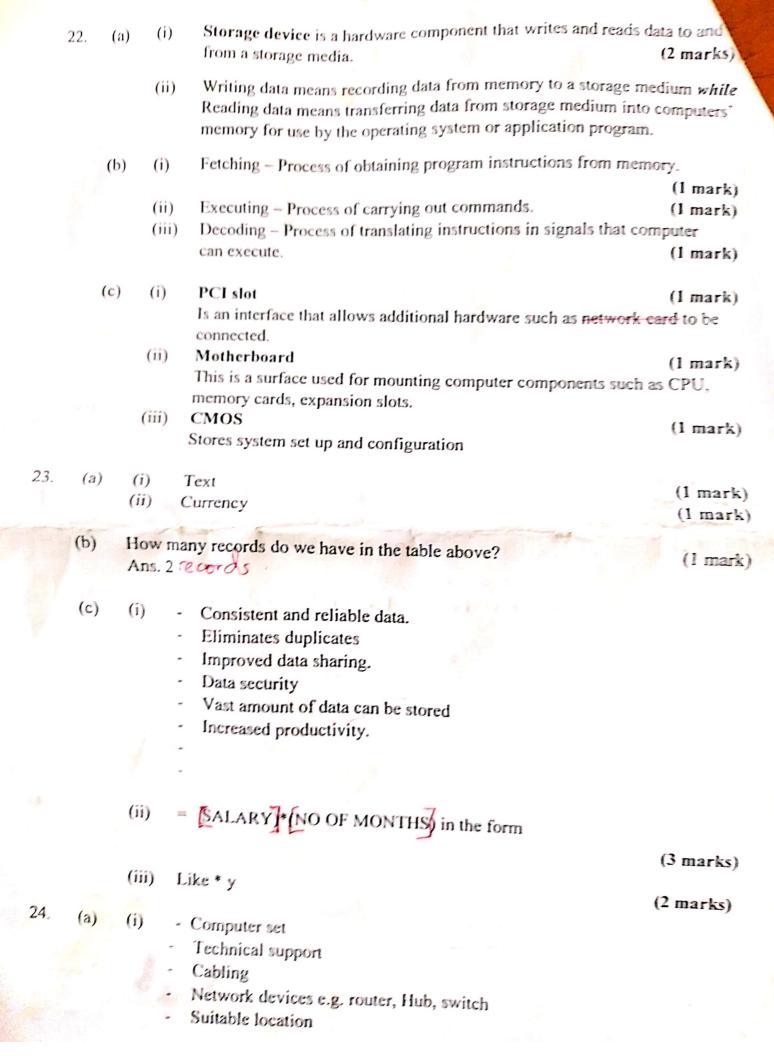
Numbers e.g. 1, 0

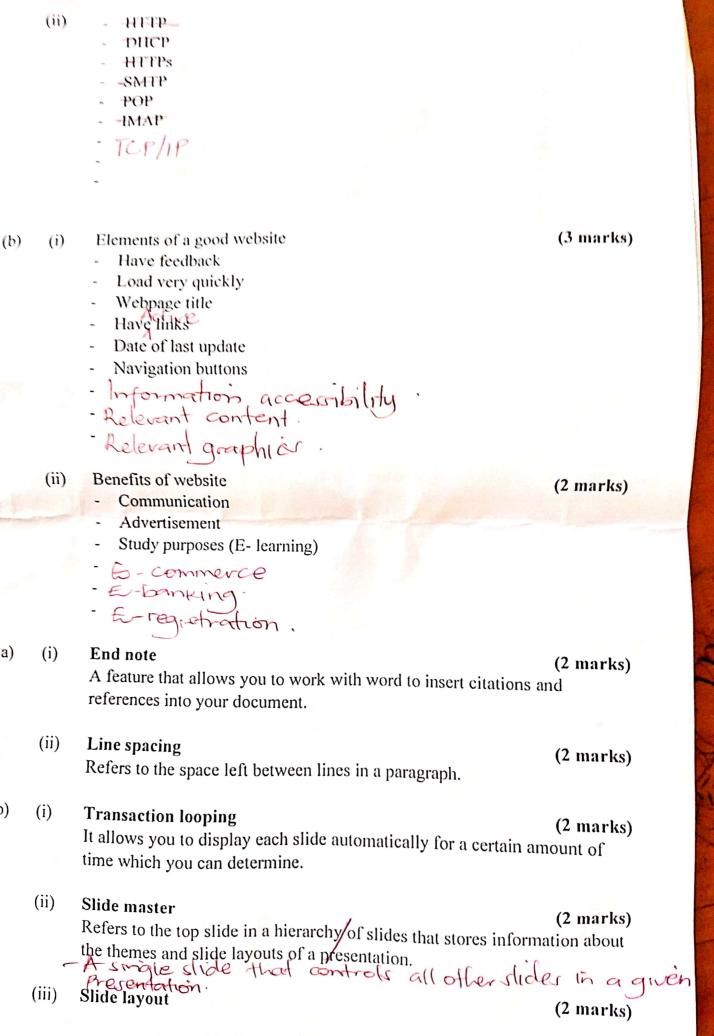
Letters Characters

Musical notes

(3 marks)

(2 marks)





(a)

(b)

This contains formatting positioning and place holder boxes for all the content that appears in a slide. (3 marks) Advantages of GUI over CLI 26. One can memorize commands in CLI one has to memorize commands. CLI is easier to use compared to CLI interface. Under GUI, one can edit the configurations manually unlike in CLI. GUI has an impressive display compared to CLI display which is dull. all is user friendly application. (b) (i) to compress a file (2 marks) Makes it easier to store documents as they take up less space and will be easier to open later as well. Reduce transmission time. (ii) To back up a file (2 marks) Create a copy of data that can be recovered in the event of primary data failure or secure important files from data loss. (c) (i) Source code (1 mark) Instruction which the a programmer writes in a high level programming language. (ii) Object code (1 mark) Set of instructions that have been converted by a complier into binary form. (iii) Syntax (1 mark) • Rules that define the structure of a language. Rules that control the structure of the symbols, punctuation and words of a programming language. - Set of grammatical rules used in programming SECTION C (20 MARKS) Attempt only one question Indicators of a computer system failure (a) Noisy hard drive' Regular boot errors Poor software performance Poor hardware performance - Loud system fun Hardware conflicts - File and program corruption - Contant freezing - Communication failure between devices and as. Academia Loss of files.

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Use of surge protector to control over and under voltage (6) Connecting uninterruptable power supply to the computer for additional electrical protection. Files should be backed up regularly to prevent data loss caused by system failure. Use of anti-virus Restoring backed up files to their original locations on the computer Backup files should be kept in a fire proof, treat proof safe or offside. Educating were Any 5 x 2 marks Proper shutting down of computers. (10 marks) LAN set up (a) Switch Networking devices. Router Hub NIC Ensure that the user has a computer system in place connect the computer to the networking devices through a networking cable. Connect the network cables to several computers. Configure the computers Ensure that the computers can easily communicate with other computers. Limitations of a computer Network. (b) Security issues High intial costs Moral and cultural effects Spread of terrorism Over reliance on networks tigh rate of technical support.
Limits face to face interactions.
High dependence of tempoter corver. Any 5 X 2 marks - use of test data which subjects the new program to a real work challenge. (a) Compilation Debugging utilities Dry-run / test check or walk. - Manual code review - Syntax error analysis - Static code analytis - use of automated text took. (6 marks) - Unit tecting (b) - Portable; Machine independent and able to run on different operating systems. - Error checking: ability to check errors or bugs and correct them. Affordable: in terms of costs and maintenance.

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- With familiar notation: should have familiar notation so that it can be understood by most programmers.
- Efficient: ability to implement a command with few lines of code and acquire as a little space in memory as possible.
- Clear and simple: must be simple to learn and use.
- Wer frendliness - Revser ability.

(8 marks)

(c) #include <stdio.h>
int main()
{print f ("Baltbaseka n);
Print ("Charles Abdullatif n);
ge + ch ();
} return o;

(01 mark)
(01 mark)
(01 mark)
(01 mark)

END

Surname = input ("Mulungi!")

gweiname = input ("Pauline!")

Print ("Gurname!", Mulungi)

Print ("Giveniname!", Pauline)