TAKORADI TECHNICAL UNIVERSITY

Faculty of Applied Sciences
Department of Computer Science

END OF SEMESTER EXAMINATION

2021/2022

BIT 313 PRINCIPLES OF PROGRAMMING SECTION A

SECTION A-MULTIPLE CHOICE INSTRUCTIONS

ANSWER ALL QUESTIONS. Select the most appropriate answer for each question. Each question carries ½ mark

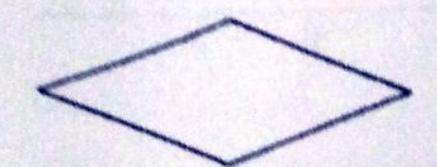
- 1. Select the Odd one out
 - A. Operating system
 - B. Interpreter
 - C. Compiler
 - D. Assembler
- 2. Which one of the following is NOT a computer proramming language
 - A. MS-Excel
 - B. BASIC
 - C. COBOL
 - D. C++
- 3. When creating a computer program, the designs the structure of the program
 - B. System Analyst
 - C. Programmer
 - D. All of the above

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4. The process of drawing a flowchart for an algorithm is called

- A. Performance
- B. Evaluation
- C. Algorithmic Representation
- D. Flowcharting
- 5. Actual instructions in flowcharting are represented in
 - a) Circles
 - b) Boxes
 - c) Arrows
 - d) Lines
- 6. The following box denotes?



- A. Decision
- B. Initiation
- C. Initialization
- D. I/O
- 7. A box that can represent two different conditions.
 - A. Rectangle
 - B. Diamond
 - C. Circle
 - D. Parallelogram
- 8. Which of the following is not an advantage of a flowchart?
 - A. Better communication
 - B. Efficient coding
 - C. Systematic testing
 - D. Improper documentation

9. Method which uses a list of well-defin	led finite instructions to complete a task is called
A. Program	instructions to complete
B. Flowchart	
C. Algorithm	Om.
D. A & B	lakoradi Technica Dea
10. Flowcharts and Algorithms are used	for Scientifical University of the Dea
A. Better programming	Takuradi Scie
B. Easy testing and debugging	
C. Efficient coding	
D. All of the above	
D. All of the doors	
11. An algorithm represented in a form	of programming languages is called
	or programming languages is
A. Flowchart	
B. Pseudocode	
C. Program	
D. None of the above	
	al representation of an algorithm
12. Which of the following is a pictori	at representation of an argorithm
A. Pseudocode	
B. Program	
C. Flowchart	
D. Algorithm	
	is referred as
13. A code written in a particular lang	guage is referred as
A. Object code	
B. Programing code	
C. Source code	
D. None of the Above	
	everting source code to machine lenguage
	y of converting source code to machine language
A. Converters	
B. Translators	
C. Programmers	
D. Algorithm	

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15. Binaries are also referred to as

- A. Object code
- B. Source code
- C. Programming code
- D. All of the above

16. Python is a good example of

- A. Interpreter
- B. Compiler
- C. Flowchart
- D. Pseudocode

17. A sequence of instructions that is executed by a computer is called

- A. Syntax
- B. Computer program
- C. Logic code
- D. Binary

18. Executing a program is mostly called

- A. A process
- B. Instruction
- C. Compiling
- D. None of the above

19. Which of the following variable is not correct in python programming language

- A. Ab=2
- B. -4a=8
- C. ___8ui="name"
- D. Name90="Fiifi"

20	are used to store data, they take memory space based on the	e type of value
	assigned to them	
	assigned to them	
	A. Constants	
		las decults
	B. Variables	las ofter

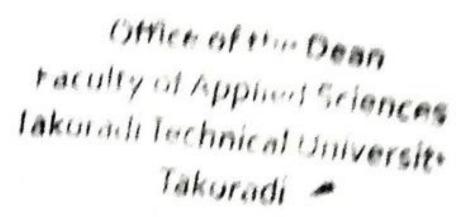
Taculty of of the Dear Takoradi Tachnical University C. Names D. Data type

- 21. ___are not expected to change
 - A. Values
 - B. Constants
 - C. Variables
 - D. Pseudocode
- 22. During the execution of an application, the data values are temporality held in
 - A. Hard disk
 - B. Mother board
 - C. Memory
 - D. All of the above
- 23. Which of the following is true about this statement: Name="Kwame"
 - A. Name is the variable name
 - B. Kwame is the variable name
 - C. = is the variable name
 - D. Name="Kwame" is the variable name
- 24. Which of the following statements is false about variable names in python
 - A. A variable name can only contain alpha-numeric characters and underscores
 - B. A variable name must start with a letter or the underscore character
 - C. Variable names are case-sensitive
 - D. None of the above

25. __uses structural conventions of a normal programming language, but is intended

for human reading rather than machine reading

- A. Algorithm
- B. Pseudocode
- C. System code
- D. Translator



26. Which of the following symbols is used to indicate the beginning of a program in flowchart



- A. B
- B. A
- C. C
- D. D
- 27. Which of the following symbols is used as input in flowchart



- A. B
- B. A
- C. C
- D. D
- 28. In computer programming, execution of an application is termed as
 - A. Execution
 - B. Running
 - C. Syntaxing
 - D. Coding

29. Ku	lies that controls the structure of a pro-		
> A.	A. Rules A. Rules		
B.	Control structures		
C.	Statements		
D.	. Syntax	lakoradi Tochnical Sciences uage is called	
		adi Toch Pplie Geap	
30. A	code written in particular programming lang	liage is colled	
Α	. Syntax code	auge is called	
В	3. Object code		
C	C. Source code		
D	D. Binary		
31. 0	Object code is commonly referred to as		
A	A. Translator		
I	B. App		
(C. Binary		
]	D. Assembler		
32.	A compiler is		
	A. A combination of computer hardware		
	B. A program which translates from one high	gher level language to another	
	C. None of the options		
	D. A program which translates from one hi	gh level to a machine level language	
33	. When a key is pressed on the keyboard, wh	ich standard is used for converting	
	corresponding keystroke into a correspondi	ng bit	
	A. ANSI		
	B. ISO		
	C. EBCDIC		
	D. ASCII		

34. A program error that occurs while the program is running is	
A. Syntax error	
B. Runtime error	
C. Execution error	t delle Office Of
D. Running error	Office of Lakulau, ppi, read Lakulau, hnical rience, Lakoradi riversita
35. An error in the source code of a program is	odi _ ersit.
A. Syntax error	
B. Runtime error	*
C. Language error	
D. Running error	
36. An error that occurs when a compiler or interpreter cannot un	derstand the source code
statement in order to generate machine code	act States
A. Syntax error	
B. Translator Error	
C. Language error	
D. Running error	
37. In the statement: 2+2=2 is an example of	
A. Translator error	
B. Language error	
C. Syntax error	
D. Logical error	
38. How many choices are possible when using a single if-else	statement?
A. 1	
B. 2	
C. 3	
D. 4	

39. Evaluate (to true or false) each of the following expressions:

14=14 14<14 -9>-25 -25>-9

- A. true true true true
- B. true false false false
- C. true false true true
- D. true false true false



40. Which of the following is not a relational operator

- A. >
- B. <
- C. #
- $D. \times$

SECTION B - SHORT ANSWERS INSTRUCTIONS

ANSWER ALL QUESTIONS.

- 1. Explain the following programming concepts (5 marks)
 - a. Syntax
 - b. Variables
 - e. Constants
 - d. Control structures
 - e. Object code
- 2. What is an algorithm (2)?
 - a. What is the difference between flowchart and pseudocode (2)
 - b. State the main purpose of algorithm (1)
- 3. Draw a flowchart to find the largest among three (4) different numbers (5 marks)
- 4. As the Lead developer in an Auditing firm. Your company is developing a software for its operations. Write Pseudocode and draw a flow chart for the part of the software that will be used find the average number of companies your first has been contracted to audit their books. (5 marks)

ALL THE BEST!!!