

#### TAKORADI TECHNICAL UNIVERSITY

Faculty of Applied Sciences

Department of Computer Science

#### END OF SEMESTER EXAMINATION

2021/2022

## BIT 313 PRINCIPLES OF PROGRAMMING SECTION A

# Takoradi Technical University

## SECTION A-MULTIPLE CHOICE

#### **INSTRUCTIONS**

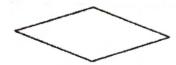
ANSWER ALL QUESTIONS. Select the most appropriate answer for each question. Each question carries ½ mark

- 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
  - A. End user
  - 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

. Method which uses a list of well-defined finite instruc	tions to complete a task is called
A. Program	
B. Flowchart	
C. Algorithm	lakoradi Technic
D. A & B	lakorani or An the M.
10. Flowcharts and Algorithms are used for	Takuradi Tak
A. Better programming	akuradi Universi
B. Easy testing and debugging	34,000
C. Efficient coding	
D. All of the above	
11. An algorithm represented in a form of programming	languages is called
A. Flowchart	
B. Pseudocode	
C. Program	
D. None of the above	
12. Which of the following is a pictorial representation	of an algorithm
A. Pseudocode	
B. Program	
C. Flowchart	
D. Algorithm	
13. A code written in a particular language is referred a	as
A. Object code	
B. Programing code	
C. Source code	
D. None of the Above	
14have the responsibility of converting so	ource 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 type of value assigned to them

  A. Constants

  B. Variables

  C. Names
- B. Variables
  C. Names
  D. Data type

  21. \_\_\_are not expected to change
  A. Values
  - B. ConstantsC. 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

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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

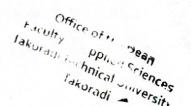
27. Which of the following symbols is used as input in flowchart



- 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

429. Ru	tles that controls the structure of a programming language is termed as	
		- 136 4
	Control structures	
	Statements	4 Os.
D.	Syntax	lakoradi Technical Univ
30. A	code written in particular programming language is called	Takural Univ
A.	Syntax code	"01 -
В.	Object code	
C.	Source code	
D.	. Binary	
31. O	bject code is commonly referred to as	
Α	. Translator	
В	. App	
C	. Binary	
D	. Assembler	
32. A	compiler is	
A	. A combination of computer hardware	
В	. A program which translates from one higher level language to another	er
C	. None of the options	
D	. A program which translates from one high level to a machine level la	anguage
<b>→</b> 33. W	hen a key is pressed on the keyboard, which standard is used for conve	erting
co	orresponding keystroke into a corresponding bit	
A	. ANSI	
В	, ISO	
C.	EBCDIC	
	ASCII	

34	. A program error th	at occurs while the program is running is
	A. Syntax error	
	B. Runtime error	
	C. Execution error	
	D. Running arror	



35. An error in the source code of a program is

- A. Syntax error
- B. Runtime error
- C. Language error
- D. Running error

36. An error that occurs when a compiler or interpreter cannot understand the source code statement in order to generate machine code

- 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. x

# SECTION B – SHORT ANSWERS <u>INSTRUCTIONS</u>

#### ANSWER ALL QUESTIONS.

- 1. Explain the following programming concepts (5 marks)
  - a. Syntax
  - b. Variables
  - c. 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!!!



