Computational Thinking

Sr	Questions	Answers Choice
1	Which of the following best describes compoutational thinking.	A. Breaking down a problem into smaller, manageable parts B. The process of performing mathemaical calculation C. Creating hardware solutions for computin D. Writeing complex algorithms only
2	The diamond symbol represents the	A. Input /output B. Remarks C. Decision making D. Processing
3	In flowcharts symbol  is used to show a	A. Decision making B. solution C. Test Data D. Verification
4	Which terms refers to the process of ignoring the detail to focus on the main idea?	A. Decomposition B. algorithm design C. Abstraction D. Decomposition
5	Which of the following is a principle of computational thinking?	A. Ignoring problem understanding B. Iplementig random solutions C. Problem simplification D. a Voiding solution design
6	What is decomposition is computational thinking?	A. Ignoring unecessary detail and focusing only on key aspects B. Creatig a set of instruction to follow C. Breaking a complex problem into smaller easier to solve parts D. Identifying pattern and smiilariites between problems
7	Which symbol in the flowchart is used to either start or end the flowchart.	A. Process B. Decision C. Connector D. Terminal
8	What is abstractionin computational thinking?	A. Using complex langage and jargon to explain problems B. solvering a problem step-by-step without simplification C. Focusing on the most importnat details and ignoring irrelevant information D. Creating detail models for realword problems
9	Breaking down the larger problems into smaller manageabe ones and working on them one by one is called.	A. Abstraction B. Algorithm design C. Pattern Recognition D. Decomposition
10	Dry running a flowchart involves	A. Writing the code in a programming language B. Testing the flowchart with sample data C. Converting the flowchart into pseudocode D. Ignoring the flowchart details
11	Flowchart are used to	A. Identify patterns B. Code a program C. Represent algorithms graphcially D. Solve mathematical equations
12	Pattern recognition involves	A. Ignoring repetitive elements B. Breaking problems into smaller pieces C. Finding and using similarities within problem

		D. Writing detailed algroithm
13	Which stepin computatinal thinking involves creating a sequence of steps to solve a problem.	A. Pattern recogntion B. Abstraction C. Decomposition D. Algorithmic design
14	What is the purpose of a parallelogram shape in flowcharting.	A. Decision B. Input /output C. Connector D. start or End
15	Which is a graphical representation of an algorithm?	A. Matrix B. Graph C. Flowchart D. Solution
16	Which of the following best defines computational thinking?	A. An approach that ignores real world applications B. A Problem solving approach that employs systematic , algorothmic and logical thinking C. A technique used exclusively in computer programming D. A method of solving problem using mathematicla alulations only.
17	What is the purpose of an oval shape symbol in flowcharting?	A. Start and End B. Decision C. Connector D. Process
18	Algorithms are	A. List of data B. Graphical representations C. Repetitive patterns D. Steps by step instructions for solving a problem
19	Why is problem decomposition important in computational thinking.	A. it is only useful for simple problems. B. It complicantes problems by adding more details C. It eliminates the need for solving the problem D. It simplifies problems by breaking them down into smaller, more manageable parts
20	Which of the following is an example of pattern recognition in computational thinking?	A. solving problems without breaking them into smaller parts B. Designing a new algorithm for every problem C. Identifying trends in data to predict future outcomes D. Writeing a programin multiple programming languages.