THE PUNJAB SCHOOL
DRC-JTC

Practice worksheet-1

Self-Assessment-Summer 2020

Computer:-1 **Class-IX** **Marks: 50**

NOTE: Cutting and overwriting will be marked as zero.

Q.1	**Read the statements CAREFULLY and write the option of your answer in the last column.**					**20**
S. No	**Statements**	**A**	**B**	**C**	**D**	**ANS**
1.	Which solutions are not reached through proper algorithms or work planning?	Prepared solution	Candid solution	Strategizes solution	Best solution	
2.	_____ is a graphical representation of an algorithm.	Matrix	Graph	Flowchart	Solution	
3.	Which symbol in the flowchart is used to either start or end the flowchart ?	Terminal	Connector	Process	Decision	
4.	_____ means to test if the required solution is there.	Verification	Algorithm	Validation	Flowchart	
5.	In a _____ error , the solution is working but not giving required results.	Random error	Logical error	Syntax error	Runtime error	
6.	A well-defined problem is one that does not contain_____.	Random error	Logical error	Syntax error	Ambiguities	
7.	1st step of problem solving is to _____ the problem.	Define	Understand	Plan	Define candid solution of	
8.	To define a problem we can use one of the ____ strategies.	1	2	3	4	
9.	It is important to _____ the problem before jumping into the solution.	Define	Understand	Plan	Define candid solution of	
10.	Divide and Conquer is a strategy used in _____ of a solution	Defining	Understanding	Planning	Define candid solution of	
11.	The word candid refers to something _____ and unplanned.	Spontaneous	Nonspontaneous	Clear	Ambiguous	
12.	Process symbol in flowchart is.					
13.	It is a set of steps to solve a problem.	Flowchart	Planning	Algorithm	Coding	
14.	After solving a problem we need to _____ whether the solution is correct or not.	Plan	Test	Both a and b	None	
15.	There are _____ types of test data.	2	3	4	5	
16.	It means to test whether the solution is correct or not.	Verification	Validation	Debugging	None	
17.	A trace table is a technique used to test _____.	Flowchart	Algorithm	Both a and b	None	
18.	In _____we can easily find errors.	Flowchart	Algorithm	Both a and b	None	
19.	It is not suitable for every large problems.	Flowchart	Algorithm	Both a and b	None	
20.	Showing the flow from one step to the other is not very easy in_____.	Flowchart	Algorithm	Both a and b	None	

Answer the following Short Questions.		
Q.2	**Attempt any four questions:**	**8**
i.	What is problem solving?	
ii.	What are the steps of problem solving?	
iii.	Define a problem.	
iv.	What are the strategies to define a problem? Give names of them.	
v.	How we can use background knowledge to define a problem?	
Q.3	**Attempt any three questions:**	**6**
i.	Define an algorithm with an example.	
ii.	Why understanding of a problem is important before going to solution?	
iii.	Which 5Ws are used in problem analysis? Give an example.	
iv.	What is the importance of testing?	
Q.4	**Attempt any three questions:**	**6**
i.	Differentiate between verification and validation.	
ii.	Define test data.	
iii.	What are the advantages and disadvantages of an algorithm?	
iv.	How we can improve the quality of solution by using invalid data for testing?	
Q.5	**Write detailed answer of the following questions.**	**10**
i.	Differentiate between an algorithm and a flowchart.	
ii.	Design a flow chart to display the larger one out of the three given unequal numbers.	