Adabistan-e-Soophia

Code: 1020

Test No.: <u>1</u>   **Paper:** Computer

Name:_____   **Class:** IX **Sec:** _____

Syllabus: <u>Ch. 1</u>

Question Numbers	1	2	3			Total	Grade	%age
Maximum Marks	09	22	09			**40**		
Marks Obtained								
Remarks:_____								

	A	B	C	D	Write Correct option		A	B	C	D	Write Correct option		A	B	C	D	Write Correct option
1	A	B	C	D		7	A	B	C	D		13	A	B	C	D	
2	A	B	C	D		8	A	B	C	D		14	A	B	C	D	
3	A	B	C	D		9	A	B	C	D		15	A	B	C	D	
4	A	B	C	D		10	A	B	C	D		16	A	B	C	D	
5	A	B	C	D		11	A	B	C	D		17	A	B	C	D	
6	A	B	C	D		12	A	B	C	D		18	A	B	C	D	

Note: Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink. Cutting or filling two or more times result in zero mark in that question.

Q.1	Questions	(A)	(B)	(C)	(D)
1.	In order to solve a problem, it is important to follow a _____ approach.	strategic	systematic	difficult	appropriate
2.	We try to guess the unknown information based upon past experiences in _____.	act it out	use guesses	flowchart	prototype
3.	The selection of solution depends upon the _____.	criteria	resources	problem	number of solutions
4.	In a flowchart it is possible that the flow may go to _____ step.	any	later	previous	first
5.	The word candid refers to something _____ and unplanned.	random	spontaneous	planned	uncertain
6.	If the remainder is zero then the number is_____.	even	odd	negative	both A & B
7.	_____ is used to transfer control to a certain step of an algorithm.	If / else	Set	Input	Goto
8.	Modifying a/an _____ is not very easy every time.	flowchart	algorithm	program	both A & B
9.	Testing an algorithm using invalid data ensures that the algorithm can handle _____ data inputs.	undefined	unexpected	unknown	known

10.	_____ is essential to point out the defects and errors made during finding solution to some problem.	defining	flowchart	coding	testing
11.	_____ means to test if the solution is actually solving the problem for which it was designed.	verification	validation	testing	none of these
12.	_____ shows a condition operation that determines which one of the two paths to take.	process	decision	terminal	flow line
13.	If a flowchart does not fit on a page, then we can use ____.	continue	input	connector	none of these
14.	If an algorithm is failed during verification, then it is important to identify the _____of the failure.	reason	root cause	errors	problems
15.	Which technique is used to test algorithms?	trace table	testing table	validation	verification
16.	A solution is tested on extreme values in:	wrong data formats	absent data	boundary test data values	valid test data
17.	It is quite possible that one algorithm takes _____ space in memory and more number of steps	more	equal	less	all of these
18.	Identification of 5 Ws is part of _____ a problem	defining	understanding	solving	analyzing

(Section - I)

2. Write short answers to the following questions.   (11×2=22)

   i. What is defining a problem?

   ii. What is Gain Background Knowledge to define a problem?

   iii. Define flowchart. List down the requirements for a flowchart.

   iv. Draw the symbols for terminal, input/output, process and decision.

   v. Write advantages of flowchart.

   vi. Draw a flowchart to find the sum and product of five given numbers.

   vii. Define algorithm. Write any two disadvantages of algorithm.

   viii. List down the notations used in algorithm.

   ix. Write an algorithm to find even numbers in integers ranging from n1 to n2 (where n2 is greater than n1).

   x. How can we measure the efficiency of an algorithm?

   xi. What is Validation?

(Section - II)

Note: Give detailed answers of the following questions.   (5+4=09)

3. a) Explain types of test data.   **(5)**

   b) Explain planning a solution.   **(4)**