MARK: 50



CLASS: XI

## JAYAM MATRIC HR. SEC. SCHOOL, Elampillai.

**COMPUTER SCIENCE** 

Date: 12.10.2018	II - Unit Test (Vol:1)	TIN	<b>IE: 1.30 Hours</b>
I. Choose the correc	ct answer:		10X1=10
1 are named bo	exes for storing data		
a) Variables	b) Process	c) Functions	d) Procedure
2. The Parts of an al	gorithm are known as	,	,
a) Procedure	_	c) Abstraction	d) Function
-	ssignment i:i-1 after the ass	,	
	b) 4 c) 3	d) 2	
,	nt control flow statements		10%
_	b) 3 c) 4	d) 5	.///0.
· · · · · · · · · · · · · · · · · · ·	rnative statement is called	a statement	
a) sequential		c) iterative	d) control
6. Algorithm is made		,	
•	o print data b) selection	c) repetition	d) all of above
7. which of the following is not an invariant of the assignment? m,n:=m2+,n3+			
a) m mode2	b) n mode 3	c) 3xm-2xn	d) 2xm-3xn
,	hrase "structured programn		
-	bbage b) Douglas Engelba		Boole d) Dijkstra
	t is true in crucial points in		<b>3</b>
_	b) three c) four	d) five	
10. There must be at	,	CO,	
a) one	b) two c) three	d) four	
II. Answer any 5 qu	estion. Question no.14 is	compulsorily ansy	vered 5x2=10
11. what are variable		1019191	
12. Define an algorit	hm?		
13. Why is function			
14. What is Pseudo o			
15. Define a loop in	ivariant?		
16. Define recursion	1?		
17. What is base cas	se?		
III. Answer any 5 question. Question no.21 is compulsorily answered 5x3=15			
18. What is abstract			
19. Write a note on	Decomposition?		
20. What is case and	dysis?		
21. Draw a flowchar	rt for -3 case analysis using	g alternative stateme	ents?
22. There are 7 tumb	blers on a table, all standing	g upside down. You	are allowed to turn any 2
tumblers simulta	neously in one move. Is it	possible to reach a	situation when all the
tumblers are rigl	nt side up? (hint : The parit	ty of the number of	upside down tumblers is
invariant)			
23. Show that p-c is	invariant of the assignment	t.	
24. write short notes	on variant of alternative st	atement?	
IV. Answer any 3 d	letail questions.		3x5=15
25. Write the specification of an algorithm hypotenuse whose inputs are the length of the two			
Shorter sides of a right angled triangle, and the output is the length of the third side?			
_	rithm design techniques.		
	nt types of boxes used in th	_	in each one of its rules.
28 Explain in detail	the Recursion problem sol	ving technique	

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