TEST PAPER

Marks: 100	Time: 60 minutes	
ROLL NO.:	NAME:	
SIGNATURE:	DATE / TIME:	

	INSTRUCTIONS FOR THE CANDIDATES		
1.	Before attempting the paper carefully read out all the Instructions & Examples given on Side 1 of Answer Sheet (OMR Sheet) supplied separately.		
2.	At the start of the examination, please ensure that all pages of your Test booklet are properly printed; your Test booklet is not damaged in any manner and contains 100 questions. In case of any discrepancy the candidate should immediately report the matter to the invigilator for replacement of Test Booklet. No claim in this regard will be entertained at the later stage.		
3.	An OMR Answer Sheet is being provided separately along with this Test booklet. Please fill up all relevant entries like Roll Number, Test Booklet Code etc. in the spaces provided on the OMR Answer Sheet and put your signature in the box provided for this purpose.		
4.	Make sure to fill the correct Test booklet code on Side 2 of the OMR Answer Sheet. If the space for the Booklet Code is left blank or more than one booklet code is indicated therein, it will be deemed to be an incorrect booklet code & Answer Sheet will not be evaluated. The candidate himself/herself will be solely responsible for all the consequences arising out of any error or omission in writing the test booklet code.		
5.	This Test Booklet consists of 08 pages containing 100 questions. Against each question four alternative choices (1), (2), (3), (4) are given, out of which one is correct. Indicate your choice of answer by darkening the suitable circle with BLACK/BLUE pen in the OMR Answer Sheet supplied to you separately. Use of Pencil is strictly prohibited. More than one answer indicated against a question will be deemed as incorrect response.		
6.	The maximum marks are 100. Each question carries one mark. There will be no negative marking. The total time allocated is 60 minutes.		
7.	Do not fold or make any stray marks on the OMR Answer Sheet. Any stray mark or smudge on the OMR Answer Sheet may be taken as wrong answer. Any damage to OMR Answer Sheet may result in disqualification of the candidate.		
8.	On completion of the test, candidate must hand over the OMR Answer Sheet to the invigilator on duty in the room/hall.		
9.	Use of Mobile phones and calculators etc. are not allowed.		
10.	Keep all your belongings outside the Examination hall. Do not retain any paper except the ADMIT CARD.		

	One of the following Memories has the highest speed in terms of data transfer to and from the				
1	processor.				
	(1) Cache Memory (2) Primary Memory What is not part of the CPU	(3) Secondary Memory (4) External memory			
2		al Unit (3) Registers (4) Power Unit			
	One of the following Memories has the highest speed in terms of data transfer to and from the				
3	processor.	'			
		(3) Hard Disk (4) L3 Cache			
	The sequence in which the speed is increasing				
4	a. RAM b. Hard disk c. Cache (1) dbac (2) bdac	d. Thumb Drive/Memory Stick (3) badc (4) abdc			
	Match the following in the given sequence				
	i. Software a. Brain of the	computer			
		nbedded in Hardware			
-		f related Programs			
5	iv. CPU d. Set of inst (1) i-a ii-b iii-c iv-d (2) i-a ii-b iii-d iv-c	ructions to perform a task (3) i-c ii-d iii-a iv-b (4) i-c ii-d iii-b iv-a			
	Match the following in the given sequence				
	i. Arithmetic Instructions a. perf	orm Boolean operations			
		change the sequence of execution			
c		form numerical calculations sfer information to/from CPU to I/O devices			
6	(1) i-c ii-a iii-d iv-b (2) i-a ii-c iii-d iv-b	(3) i-b ii-c iii-d iv-a (4) i-a ii-b iii-d iv-c			
7	2^{30} bytes of memory is called				
		(3) 1 GB (4) 1 TB			
8	10^6 bytes of memory is called				
9	(1) 1 KB (2) 1 MB Control Bus Carries	(3) 1 GB (4) 1 TB			
	(1) Data (2) Address	(3) Read, Write Signal (4) Data & Address			
10	The goodness of an algorithm is most often ex				
10		(2) Average Case complexity(4) Random case complexity			
11	How many time we should half the number n to				
	(1) n (2) log(n)	(3) n(log(n)) (4) n2			
	Find the complexity of the following code				
	for (i=0; i <n;i++) {for (j=0; i<n;j++){< th=""><th></th></n;j++){<></n;i++) 				
	for (k=0; i <n;k++)< th=""><th></th></n;k++)<>				
	{i=j;				
12	<pre>}}</pre>				
13	(1) O(n) (2) O(n2) Which of the following uses Divide and Conque	(3) O(nlogn) (4) O(n3)			
13		(3) Linear Search (4) Binary Search			
14	$(1010.1110)2 = (___)10$				
		(3)10.875 (4) 11.657			
15	(AABC)16 = ()8 (1) 123456 (2) 125274	(2) 127800 (4) 224512			
	(1) 123456 (2) 125274 Which if the following operation is the easiest in	(3) 127890 (4) 324512			
16		(2) deletion of an element			
	(3) Insertion of an element	(4) creation of Array of given size			
17	An array is not full, The time complexity of Inse				
		(3) O(n) (4) O(logn)			
18	array is 1000 and every record consists of 40 b	addressing is byte by byte. If The base address of the ovtes then address of array[10] will be			
	(1) 1040 (2) 1400	(3) 1440 (4) 1080			
		ther. Four of these people are selected to attend four			
		I will go to a conference in New Delhi, the second will			
19	go to Kolkata, the third to Chennai, and the fou possible?	run to wumbal. How many such selections are			
13	•	(3) 4845 (4) none of these			
20	Total numbers of ascending runs in the sequer	nce 4 6 7 2 9 1 2 8 9 3 0			
	(1) 3 (2) 5	(3) 7 (4) 9			

	Match the following ir	the given sequence		
		LIFO		
		IFO		
	,	ontinuous memory		
21		ses pointers		
	(1) i-b ii-a iii-d iv-c	(2) i-a ii-b iii-c iv-d	(3) i-a ii-b iii-d iv-c	(4) i-b ii-a iii-c iv-d
22	Stack does not have	one of the following me	thods	
	(1) Pop	(2) push	(3) Top	(4) replace
				the same order) using a stack
23		out is the sequence 1, 2		
	(1) 3, 4, 5, 1, 2	(2) 3, 4, 5, 2, 1	(3) 1, 5, 2, 3, 4	(4) 5, 4, 3, 1, 2
				of operations: PUSH(&);
24); POP();POP(); PUSH(
	(1) @ What will be the output	(2) &	(3) #	(4) %
		ut of the following C pro	gram	
	main()			
	int count, i, x;			
		count<=4;count++,i++)		
	{			
	x=i%2;			
	if(x==0)			
	continue;			
	else			
	{			
	printf("%d\n",x);			
	continue;			
	}			
	}			
	printf("%d",count);			
25	}			
	(1) 2 4 5	(2) 1 1 5 ut of the following progr	(3) 2 5 5	(4) 1 2 2
	main()	ut of the following progr	am	
	1 int k = 3;			
	switch(k)			
	default : k += 2;			
	case 4 : k +=1;			
	case 5:k;			
	}			
26	(1) 5	(2) 3	(3) 2	(4) 4
		ut of the following progr		
	main()	at of the following progr	ani	
	{			
	1 int y, x = 1, total = 0;			
	while ($x <= 10$)			
	{			
	y = x * x;			
	total $+= y;$			
	++X;			
	} // end while			
	printf("%d", total);			
27	}			
	(1) 81	(2) 1	(3) 385	(4) 45
		(<i>L</i>) I	(0) 000	

	What will be the output of the following program
	main()
	int i=0,x=0;
	for(i=1;i<10;++i)
	if(i%2 == 1)
	x += i;
	else
	X;
	printf("\n%d",x);
	break;
00	$\left \right\rangle$
28	printf("\nx=%d",x); } (1) 1 1 (2) 5 5 (3) 10 1 (4) 10 10
29	Convert (A-B)*(D/E) into a postfix expression
	(1) AB-DE/* (2) A*BD/E- (3) ABDE-/* (4) /-ABDE
30	The fact that the same operation may apply to two or more classes is called what?
	(1) Inheritance (2) Polymorphism (3) Encapsulation (4) Multiple classification
	The object-oriented development life cycle is which of the following?
	(1) Analysis, design, and implementation steps in the given order and using multiple iterations.
	(2) Analysis, design, and implementation steps in the given order and going through the steps no
	more than one time.
. .	(3) Analysis, design, and implementation steps in any order and using multiple iterations.
31	(4) Analysis, design, and implementation steps in any order and going through the steps no more
	than one time
32	Multiplicity is the same as what concept for an ERD?
	(1) Relationship (2) Entity (3) Attribute (4) Cardinality
33	Composition is a stronger form of which of the following?
	(1) Aggregation (2) Encapsulation (3) Inheritance (4) All of the above.
34	Which of the following applies to a class rather than an object?
05	(1) Query (2) Scope (3) Update (4) Constructor
35	Row is synonymous with the term:
00	(1) record. (2) column. (3) relation. (4) field.
36	The primary key is selected from the:
37	(1) composite keys. (2) determinants. (3) candidate keys. (4) foreign keys. Which of the following is a group of one or more attributes that uniquely identifies a row?
37	(1) Key (2) Tuple (3) Determinant (4) Relation
38	A functional dependency is a relationship between or among:
30	(1) tables. (2) relations. (3) rows. (4) attributes.
39	A tuple is a(n):
39	(1) Column of a table. (2) two dimensional table. (3) row of a table. (4) key of a table.
	The DROP TABLE statement:
	(1) deletes the table structure only.
	(2) deletes the table structure along with the table data.
40	(3) works whether or not referential integrity constraints would be violated.
-10	(4) is not an SQL statement.
	For what purposes are views used?
41	(1) To hide columns only (2) To hide rows only
ΤI	(3) To hide complicated SQL statements only (4) All of the above are uses for SQL views.
	What is the best data type definition for Oracle when a field is alphanumeric and has a length that
42	can vary?
	(1) VARCHAR2 (2) LONG (3) CHAR (4) NUMBER
43	In which header file is isalpha() declared?
.0	(1) conio.h (2) stdio.h (3) ctype.h (4) maths.h
44	Which one of the following OOP concepts enables reusability of components?
1.1	(1) Inheritance (2) Encapsulation (3) Polymorphism (4) All of the above
45	The term operator overloading in C++ refers to:
	(1) Inheritance (2) Message passing (3) Polymorphism (4) None
46	In C++ a function contained within a class is called
-10	(1) a member function (2) an operator (3) a class function (4) a method

	What value must a constructor return?			
	(1) A pointer to the class.			
	(2) An object of the class.			
47	· · · · · · · · · · · · · · · · · · ·			
	(4) Constructors do not return a val			
	A page fault occurs			
48	(1) when the page is not in the memory	(2) when the page is		
	(3) when the process enters the blocked state	(4) when the process	is in the ready state	
	What is a shell?			
49	(1) It is a hardware component	(2) It is a command in		
	(3) It is a part in compiler	(4) It is a tool in CPU	scheduling	
50	Routine is not loaded until it is called. All routi			
50	main program is loaded into memory & is exe			
		(3) Dynamic linking (4) Ov	venays	
F 4	In the blocked state	(0) the sum of a sub-	in much a in formal	
51	(1) the processes waiting for I/O are found	(2) the process which		
	(3) the processes waiting for the processor arWhat is the memory from 1K - 640K called ?		÷	
52	(1) Extended Memory	(2) Normal Momory		
52	(3) Low Memory	(2) Normal Memory(4) Conventional Memory		
	Virtual memory is			
53		(2) An extremely large	secondary memory	
55	(3) An illusion of extremely large main memor			
	The process related to process control, file ma			
	system and communication that is requested			
54				
	(1) Editors (2) Compilers	(3) System Call (4) Ca	aching	
	If the Disk head is located initially at 32, find the	ne number of disk moves requ	ired with FCFS if the	
55	disk queue of I/O blocks requests are 98,37,1			
	(1) 10 (2) 324	(3) 315 (4) 32	21	
	Multiprogramming systems			
56	56 (1) Are easier to develop than single programming systems (2) Execute each job faster			
00				
	(3) Execute more jobs in the same time			
57	(3) Execute more jobs in the same time Which is not the state of the process ?	(4) Are used only on large ma	ain frame computers	
	(3) Execute more jobs in the same time Which is not the state of the process ?	(4) Are used only on large ma	ain frame computers	
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	FIFO scheduling is				
67	(1) Preemptive Scheduling (2)	Non Preemptive Scheduling			
	(3) Deadline Scheduling (4)	Fair share scheduling			
	Switching the CPU to another Process requires to save state of the old process and loading new				
68		, c			
		Time Sharing (4) None of the above			
	Which directory implementation is used in most Operating System?				
69		Two level directory structure			
		Acyclic directory structure			
70					
	(1) Server (2) Client (3)	Mainframe (4) none			
71	For large networks, which topology is used				
		Ring (4) Mesh			
72	(1) Bus (2) Star (3) Which layer decides which physical pathway the c	lata should take.			
	(1) Application (2) Network (3)	Physical (4) Transport			
73	(1) Application(2) Network(3)X.25 is an example of				
	(1) Circuit switched (2) Packet switched (3)	Frame switched (4) None of the above			
74	In Print server which is a buffer that holds data be				
		Node (4) Jobs			
75	Which connector STP uses?				
		RJ-45 (4) RJ-69			
76	What is the central device in star topology?				
		PDC (4) Router			
77	What is max data capacity for optical fiber cable?				
		1000 mbps (4) 10000 mbps			
78	Which of the following architecture uses CSMA/CI				
		ATM (4) None of the above			
	A router:				
	(1) forwards a packet to all outgoing links, except				
70	(2) forwards a packet to the next free outgoing link				
79	(3) determines on which outgoing link a packet is	to be forwarded.			
	(4) forwards a packet to all outgoing links.				
00	The Internet is an example of a:	aircuit awitched patwork			
80		circuit switched network. frame switched network			
81	A class can be converted to a thread by implement				
01		both a and b (4) none			
	What is byte code in the context of Java?				
	(1) The type of code generated by a Java compile	r			
	(2) The type of code generated by a Java Virtual N				
82	(3) It is another name for a Java source file				
	(4) It is the code written within the instance metho	ds of a class			
	Which of the following are legal declarations for no				
83		public static interface Test{}			
_	· · · · · · · · · · · · · · · · · · ·	protected abstract class Test{}			
	Which component of the .NET Framework allows				
	can be executed from the command line?				
84		Console Applications			
	(3) Web Forms (4).	NET Class Framework			
	You are adding a data view to a Windows Form. Y	ou wish to view records that are current. Which			
85	property of the data view should you set?				
		AllowDelete (4) Sort			
	You want to debug a Web-based ASP.NET applic	ation. But for some cause debugging information			
	is not shown. What could be missing?				
86	(1) <%@ Page Debug="true" %>	(2) <%@ Application Debug="true" %>			
	(3) <%@ Page Trace="true" %>	(4) <%@ Application Trace="true" %>			
87	What ASP.NET object encapsulates the state of th				
	(1) Application object. (2) Session object. (3)	Kesponse object. (4) Kequest object.			
	You are developing a web application that is retrie				
	server and displays it to the users of your application. What cache strategy will give you the best				
00	performance?	(2) Liso the cache chiest			
88	(1) Use the output cache.(3) Use the ASP.NET central cache.	(2) Use the cache object.(4) Use the client cache			
1	(J) USE LIE ASI INLI CEILLAI CACHE.				

89	NET remote server object must implement?			
00	(1) IUnknown (2) IMarshalByValue (3) IMarshalBvRef (4) ISerializable		
90			ed?	
) HasCollision (4) HasDataError		
	What is the fastest way to concat strings in ASP.	NET ? What should you do?		
	(1) Write code that uses the Append method of the StringBuilder object.			
	(2) Write code that uses the Substring method of			
91				
	(4) Write code that uses the plus-sign (+) operate			
92				
) Random (4) All of the above		
93				
) Rotational delay (4) Access time		
94	· · · · · · · · · · · · · · · · · · ·			
) 32 Mb (4) 64 Mb		
	Two main measures for the efficiency of an algor			
95) Complexity and capacity		
) Data and space		
96				
) private (4) None of these		
97	Which looping process is best used when the nu (1) for (2) while	TIDEL OF RELATIONS IS KNOWN?		
97		ping processes require that the iteration	s be known	
98		bing processes require that the iteration	S DE KIIOWII	
30) 3 (4) 4		
99			return?	
55) void (4) 2		
100				
) Merge Sort (4) Heap Sort		
L				

Rough Work