PROGRAMMING LANGUAGE 'C'

FROC		
1.	main() {	
	int a=4,b=2; a=b< <a +="" b="">>2; printf("%d", a);	
	a) 3 <mark>2 b)</mark> 2 c) 4 d) none	
2.	main()	
	<pre>int *ptr=(int*)malloc(sizeof(int)); *ptr=4; printf("%d",(*ptr)+++*ptr++);</pre>	
	a) 7 b) 9 c) Runtime error d) none	
3.	#define MAX 3 main()	
	{ printf("MAX = %d \n",MAX); #undef MAX #ifdef MAX printf("Vector Institute"); #endif	
	 a) MAX=3, Vector Institute b) MAX=3 c) Vector Institute d) Compile time error 	
4.	int a <mark>rray[]={1,2,3,4,5,6</mark> ,7,8}; #define SIZE (sizeof(array)/sizeof(int)) main() {	
	if(-1<=SIZE) printf("1"); else printf("2");	
	a) 1 b) 8 c) 2 d) 4	
5.	main()	
	int ptr[] = {1,2,23,6,5,6}; printf("%d",&ptr[3]-&ptr[0]); }	
	a) 1 b) 2 c) 4 d) none	

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6.	main()					
	<pre>{ char input[] = "SSSWILTECH1\1\1"; int i, c; for (i=2; (c=input[i])!='\0'; i++) { switch(c) { case 'a': putchar ('i'); continue; case '1': break; case 1: while ((c = input[++i]) != '\1' && c!= '\0'); case 'E': case 'L': continue; default: putchar(c);continue; } putchar(' '); } putchar('\n'); } } </pre>					
	a) SWITCH b) SSWILI c) SIEH1 d) compile time error					
8.	<pre>main() { int a[3][4] ={1,2,3,4,5,6,7,8,9,10,11,12}; int i, j, k=99; for(i=0;i<3;i++) for(j=0;j<4;j++) if(a[i][j] < k) k = a[i][j]; printf("%d", k); } a) 7 b) 9 c) 3 d) 1 main() { char p[] = "hello world!"; p = "vector"; printf("%s",p); } a) vector b) hello world! c) hello world! vector d) none</pre>					
9.	main()					
	{ enum _tag{ left=10, right, front=100, back}; printf("%d, %d, %d, %d", left, right, front, back); }					
	a) 10,0,1,2 b) 10,11,100,102 c) 0,1,2,3 d) hone					
10.	main()					
	char as[] = "\\0\0";					



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15.	main()
	<pre>{ unsigned int k = 987, i = 0; char trans[10]; do { trans[i++] =(char) (k%16 > 9 ? k%16 - 10 + 'a' : '\0'); while(k /= 16); printf("%s\n", trans); } }</pre>
	a) bd b) cf c) eg d) none
16.	<pre>main() { struct test { char c; int i; char m; } t1; printf("%d %d\n", sizeof(t1), sizeof(t1.c)); }</pre>
	} a) 4 <mark>1 b) 6 2 c) 4 2 d</mark>) none
17.	main() { printf("%x",-1<<4); } a) FF00 b) FFFF c) FFF0 d) Compile time error
18.	main() { int var1=12, var2=35; printf("%d",max(var1,var2)); } int max(int x, int y) { x>y? return x: return y; } a) 12 b) 35 c) compile time error d) run time error
19.	main() { int x, arr[8]={11,22,33,44,55,66,77,88}; x=(arr+2)[3]; printf("%d",x); }

	a) 33	b) 66 c) 44 d) 77			
20.	struct tag{ auto int x; static int y; };				
	{	struct tag s; s.x=4; s.y=5; printf("%d",s.x);			
	} a) 4	b) 5 c) 9 d) none			
DIGIT	AL				
21.	A Bipolar transistor has a total of a) Two similarly doped regions b) Three alternatively doped regions c) Two alternatively doped regions d) Three similarly doped regions				
22.	Whic a) Ic=	h transistor current formula is correct =IB+IE b) IB=Ic+IE c) IE=IB-Ic d) IB=IE-Ic			
23.	BJT is a a) Voltage controlled device c) current controlled device d) inverter				
24.	The s a) 12	sum of binary formats 10101010 and 01111 is 8 b) 271 c) 200 d) 252			
25.	Whic a) tim	h type of error was eliminated through the use of gray code ning b) decoding c) encoding d) conversion			
26.	lf a p multij a) 5	arity bit is added to a four bit word, how many output lines will be required after plexing ? b) 1 c) 7 d) 9			
27.	In a 1 will b a) 50	LOOKHz four-stage frequency divider, if the CLEAR input to stage two is LOW, what e the fourthstage output frequency ? KHz b) 12.5 KHz c) 0.0KHz d) 25 KHz			
28.	How outpu a) 16	many clock pulses required to load 4-bit SIPO register and transfer the data to a ut register. b) 8 c) 5 d) 4			
29.	Whic equip	h type of device may be used to interface a parallel data format with an external oments serial format ?			

	a) Key matrix b) Memory chip c) UART d) SIPO
30.	If 00000111 in a register is shifted to read 00111000, the arithmetic operation is a) X2 b) X4 c) X16 d) X8
Micro 8085:	Proc <mark>essor (</mark> 8085/8086): (Select either [] 8085 / [] 8086)
31.	The 8085 microprocessor is an bit microprocessor. It is a pin IC. a) 8 , 20 b) 16 , 40 c) 16 , 20 d) 8 , 40
32.	The following are true about 8085 except that, a) It is manufactured by using NMOS technology b) It is having on-chip clock generation facility c) It has 8 address lines d) Lower order address bus is multiplexed with data bus
33.	The status register or flag register of 8085 include flags. a) 3 b) 5 c) 7 d) 9
34.	The data conditions, after execution of an arithmetic or logical operations are indicated by setting or resetting the called flags. a) Flip-flops b) latches c) registers d) gates
35.	Addr <mark>ess Latche</mark> Enable(ALE) signal is used to de-multiplex and buses. a) Address , data b) Address, control c) Data,control d) None of the above
36.	SID and SOD signals are used a) For Serial communicationb) For DMA operation c) By slow operating peripheralsd) None of the above
37.	In the 8085, the machine cycle may consists of to T-states. a) 2, 4 b) 3,6 c) 2,8 d) 3,8
38.	The 8085 instruction cycle consists of one to five machine cycles. The first machine cycle of each instruction cycle is always machine cycle. a) I/O read b) I/O write c) Memory read d)None of the above
39.	The instruction is Machine control instruction. a) HLT b) PUSH c) IN d) LDA
40.	The number of ways in which the operand information is specificied in the instruction code are a) 4 b) 5 c) 12 d) 24
41.	The data bus of any microprocessor is always

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	a) Unidirectionalb) Bi-directionalc) Either unidirectional or bi-directionald) None of the above
42.	In a microprocessor based system, the stack is always in a) Microprocessor b) RAM c) ROM d) EPROM
43.	In 8085 microprocessor ,the I/O devices can be used in a) Memory mapped I/O only b) I/O mapped I/O only c) Memory mapped I/O or I/O mapped I/O d) None of the above
44.	In 8085 micprocessor, in response to RST 7.5 interrupt the execution is transferred to memory location. a) 0000H b) 002CH c) 0034h d) 003CH
45.	Which of the data transfer is not possible in 8085 microprocessor ? a) Memory to accumulator c) Memory to memory d) I/O device to accumulator
46.	type of ADC is the fastest type of ADC. a) Flash b) Counter c) Dual slope d) Successive approximation
47.	The number of comparators in a 4-bit flash type ADC is a) 4 b) 5 c) 15 d) 16
48.	An ADC is usually considered as an a) Encoder b) Decoder c) Tri-State Logic d) None of the mentioned
49.	The resolution of a 4 bit counting ADC is 0.5 volts. For an analog input of 6.6 volts, the digital output of the ADC will be a) 1011 b) 1101 c) 1100 d) 1110
50.	There are types of DAC's avaible. a) 2 b) 3 c) 4 d) 5
8086:	
31.	What is the maximum clock frequency in 8086? a) 4MHz b) 5MHz c) 6MHz d)7MHz
32.	Size of the IP reg in 8086 is a) 8 bits b) 16 bits c) 20 bits d) 24 bits
33.	a) ss b) es c)ds d) cs
34.	 SIM is

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35.	What is the siz a) 4 bytes	te of the instruct b) 6 bytes	ction queue? c) 8 bytes	d) 2 by	tes		\sim
36.	What is the siz a)12kb	te of each segr b) 32kb	ment in 8086? c) 64kb	d)128k	b		
37.	Whic <mark>h micro p</mark> a) 80 <mark>85</mark>	rocessor accel b) 8087	ots the progran c) 8088	n written d) 8028	for 8086 with 36	out any cha	inges
38.	Which are the a) BIU	basic parts of b) EU	8086? c) pipelining	d) a an	d b		
39.	8086 isb a)8	it microprocess b)16	sor? c)20	d) 24			
40	Amo <mark>ng all whi</mark> a) 80 <mark>85</mark>	ch one is co –p b) 8087	processor for 80 c) 8088	086? d) 8028	36		
41.	How <mark>many ge</mark> a) 4	neral purpose r b) 8	r <mark>egis</mark> ters <mark>ava</mark> ila c) 10	ble in 80 d) none)86? 9	6	
42.	a) bp	eg (in 8086)cor b) sp	ntains the addre c) pc	ess of th d) ip	e next instructi	ion to be fet	tched?
43.	Whic <mark>h Segme</mark> a) ss	nt is used to st b) es	ore interrupt ar c) ds	nd <mark>s</mark> ubro	utine return ad d) cs	ldress regis	ters.
44.	Whic <mark>h Flag ca</mark> operation of th a) trace	n be set or res e processor? b) interrupt	et by the progr c) dire	ammer a ection	and also used d) all	to control th	ne
45.	Give example a) RST 7.5	of maskable in b) RST 6.5	terrupt? c) TRAP	d) a an	d b		
46.	MOV Cx, 1234 a) Register	1H instruction b b) memory	pelongs to whic c) dire	h addre ct	ssing mode ? d) Immediate		
47.	8086 instruction a) 1 to 2 bytes	ons varied from b) 1 to	to 3 bytes	by c) 1 to	tes ? 4 bytes	d) none	
48.	8086 pr <mark>e</mark> fetch a) 4	es only when a b) 3	t l <mark>e</mark> ast	bytes c) 2	are free in que	ue. d) 1	

49. An RS-232 interface is a) a parallel interface d) a modem interface b) a serial interface c) printer interface

d) 9

 50.
 8086 has ------ flag signals.

 (a) 3
 b) 5
 c) 7

APTITUDE:

- 51.A train passes a station platform in 36 seconds and a man standing on the platform in 20 seconds. If the speed of the train is 54 km/hr, what is the length of the platform?
a) 120 ma) 120 mb) 240 mc) 300 md) none of these
- 52. In one hour, a boat goes 11 km/hr along the stream and 5 km/hr against the stream. The speed of the boat in still water (in km/hr) is: a) 3 km/hr b) 5 km/hr c) 8 km/hr d) 9 km/hr
- 53. If x=y=2z and xyz=256 then what is the value of x?. a)12 b)4 c)16 d)6
- 54. Pipe A can fill a tank in 20 minutes and Pipe B in 30 mins and Pipe C can empty the same in 40 mins. If all of them work together, find the time taken to fill the tank. a) 17 1/7 mins b) 20 mins c) 8 mins d) none of these
- 55. There is an element which triplicates in every hour. Each of these 3 items in turn reproduce exactly 3 other items. If a single compound is kept in a container at noon and the container is full by midnight. At what time is the container 1/3 full.

a) 4pm b) 6pm c) 9pm d) 11pm

56. Mr. Shah decided to walk down the escalator of a tube station. He found that if he walks down 26 steps, he requires 30 seconds to reach the bottom. However, if he steps down 34 stairs he would only require 18 seconds to get to the bottom. If the time is measured from the moment the top step begins to descend to the time he steps off the last step at the bottom, find out the height of the stair way in steps?

a) 18 st <mark>e</mark> ps	b) 25 ste	eps c) 46 steps	s d) 32 steps

57. What is the missing number in this series? 8 2 14 6 11 ? 14 6 18 12.

	a) 7	b) 5	c) 9	d) 10
58.	Can you find out what a) Friday	day of the week was b) Saturday	January 12, 1979? c) monday	d) Wednesday
59.	A person walking 5/6	of his usual rate is 40	minutes late. What is h	nis usual time?
	a) R <mark>s.17.40 per kg</mark> .	b) Rs. 24.35 per kg.	c) Rs. 12.46 per kg	d) Rs. 22.15 per kg
60.	A gar <mark>rison of 3300 me</mark> per head. At the end of provisions will last 8 d many more men can i	n has provisions for 3 of 7 days a reinforcem lays less, when given t feed?	2 days, when given at ent arrives and it was f at the rate of 825 gran	a rate of 850 grams found that now the ns per head. How,
	a) 1 <mark>540 men</mark>	b) 1250 men	c) 1700 men	d) 250 men
61.	The sum of a number six times the number? a) 196	and the number prece b) 94	eding it is 33. By how r c) 90	nuch is two less than d) 100
62.	If the length and bread by 16 feet. Find y a) 8	dth of a room are incre b) 2	eased by y feet each, t c) 6	he perimeter increases d) 4
63.	One- <mark>fourth of a number the number.</mark> a) 24	er is greater than one- b) 42	fifth of the number suc c) 36	ceeding it by 1. Find d) 48
64.	An oil cylinder was 3/2 many bottles of oil car a) 20	4th full. When two bott h the full cylinder hold? b) 15	les of oil is poured into ? c) 40	it, it is 4/5th full. How d) 30
65.	The ratio of present ag is B now?	ge of A and B is 4:3. A	will be 26yrs old in 6y	rs from now. How old
	a) 19915	b) 20yrs	C) 25915	u) toyis
66.	A profit of Rs. 500 is d between their profit sh a) Rs. 200	livided between X and hares ? b) Rs. 100	Y in the ratio of ½ : 1/3 c) Rs. 300	What is the difference.

67.	The sum of the prese ratio 1:2:3. What is th	nt ages of A, B, C is 4 e present age of A	5 yrs. Three years ago	their ages were in the
	a) 10yrs	b) 6yrs	c) 8yrs	d) 9yrs
68.	If the denominator of num <mark>erator</mark> is 11 less t	a fraction is increased han the denominator,	by 4, then the fraction find the numerator.	becomes 5/8. If the
	a) 25	b) 20	c) 30	d) 35
69.	15-m <mark>angoes and 7-a</mark> of co <mark>st o</mark> f one mango	oples cost as much as to cost of one apple?	10-mangoes and 9-ap	oples. What is the ratio
	a) 2:5	b) 5:2	c) 3:4 d) Car	nnot be determined
70.	A person sold his wat numerically equal to t	ch for 96 \$ and got so he cost price. What is	me percentage of prof the cost price of the w	it which was vatch
	a) 50 \$	b) 54 \$	c) 60 \$	d) 80 \$
71.	Tap A can fill an empt the tank is empty whe then at what time is th	y tank in 6-hours and en tap A is opened at 9 ne tank filled?	Tap B can empty the fi 0:00 am and tap B is of	ull tank in 8-hours. If bened at 11:00 am,
	a) 6:00pm	b) 3:00 am	c) 3:00pm	d) 6:00am
72.	20 m <mark>en can pla</mark> nt 50 sapli <mark>ngs?</mark>	saplings in 8-hours. In	how many hours can	15men plant 80
	a) 17 1/25	b) 12 7/11	c) 20	d) None of these
73.	A ma <mark>n can row at 6 k</mark> take to go to a place	m/h in s <mark>till water</mark> and a 1 km downstream and	t 4 km/h upstream. Ho return?	ow long will the man
	a) 36 min	b) 24 min	c) 12 min	d) 18min
74.	Some telegraph poles hours at 60km/h ?	s are placed 20 m apa	rt. How many poles wi	ll a train pass in 3-
	a) 1200	b) 2500	c) 4000	d) 9000
75.	The square of a two of thequotient, this sum same as those in the the original number is	digit number is divided is then divided by 2. T original number, but th s equal to twice the diff	by half the number. Af he digits of the resultin ney are in reverse orde rerence between its dig	ter 36 is added to ng number are the er. The ten's place of gits. What is the
	number? a) 38	b) 46	c) 27	d) 75