

Sample Question Paper for ICIT Common Entrance Test Basics of analog-digital electronic(10marks)

Dasit	55 of analog-digital electronic formarks)		
1	How many flip-flops are required to build a binary counter to count from 0 to 1023	a)	6
		b)	8
		c)	10
		d)	24
2	The digital logic family which has minimum power dissipation is	a)	TTL
		b)	RTL
		c)	DTL
		d)	CMOS
3	A ring counter consisting of five flip-flops will have	a)	5 states
		b)	10 states
		c)	32 states
		d)	Infinite states
4	The hexadecimal equivalent of decimal number 95.5 is	a)	5F.8
		b)	9A.B
		c)	2E.F
		d)	5A.4
5	A device which converts BCD to Seven Segment is called	a)	Encoder
		b)	Decoder
		c)	Multiplexer
		d)	Demultiplexer
	Microprocessor(20marks)		
6	Non-maskable interrupt is	a)	Interrupt whose address is known to the processor
		b)	interrupt whose address is not known to the processor and processor gets it from nterrupting source
		c)	Interrupt that cannot be disabled by the programmer
		d)	Interrupt that can be disabled by the programmer
7	A processor is 16-bit implies	a)	The address bus is 16 bit
7	A processor is 16-bit implies	a)	

		b)	The data bus is 16 bit
		D)	ALU can process 16-bit data
		c)	simultaneously
		d)	None of above
8	Interrupt is a signal that can be given to microprocessor by		Hardware
		b)	Software
		c)	Program generated exception
		d)	All of the above
9	Vectored interrupt is	a)	Interrupt whose address is known to the processor
		b)	Interrupt that cannot be disabled by the programmer
		c)	Interrupt that can be disabled by the programmer
		d)	Interrupt with highest priority
10	16-bit register/ registers in 8085	a)	Stack pointer
		b)	Program Counter
		c)	IR
		d)	Both a & b
	C-Basics(40 marks)		
11	Which of following about C comments is incorrect?	a)	Comments can go over multiple lines
		b)	Comments can start any where in the line
		c)	Comments can occur within a comment
		d)	A line can contain comments with out any language statements
12	Which of following is/are true regardless of implementation?	a)	Only i
	i. sizeof (long) is less than sizeof (int)	b)	Only i & iii
	ii. sizeof (int) equals sizeof (unsigned)	c)	Only ii
	iii. sizeof (double) is less than sizeof (float)	d)	only iii
13	Which of the following is not primary data type	a)	char
	, , , , , , , , , , , , , , , , , , ,	b)	int
		+ -	double
		+ -	structure
14	Which data type is most suitable for storing a number 65000 in a 32-bit compiler?	<u> </u>	short
		b \	lint
		b)	int

		d)	char
15	The range of character on Turbo-C compiler is	a)	0 to 255
10	The range of character on Tarbe C compiler to		-128 to +127
		c)	-127 to +128
		+-	
	Communication (40 montes)	d)	-255 to + 255
	Communication(10marks)		
16	An FM radio receiver is tuned to 90.6 MHz broadcast station. It will receive an image frequency of	a)	110 MHz
		b)	112 MHz
		c)	114 MHz
		d)	120 MHz
17	A FM signal is being broadcas in the 88.108 MHz band having carrier swing of 125 kHz. The modulation index is	a)	100%
		b)	83%
		c)	67%
		+	50%
18	Pre-emphasis in FM systems involves	a)	Compression of modulating signal
		b)	exapnsion of the modulating signal
		c)	amplification of lower frequency components of modulating signal
		d)	amplification of higher frequency components of modulating signal
19	In pahse modulation frequency deviation is	a)	Independent of the modulating signal frequency
		b)	inversely proportional to the modulating signal frequency
		c)	directly proportional to the modulating signal frequency
		d)	inversely proportional to square root of the modulating frequency
20	Which type of modulation is used for vividh Bharati Pune?	a)	AM
		+	FM
		c)	QAM
		+	None of the above
	Apptitude(10marks)	 ~,	
21	Which of the following is not a leap year?	a)	700
<u> </u>	Transit of the fellowing to flot a leap year:	b)	800
		c)	1200
22	Today is Manday, After C4 days, it will be		2000
22	Today is Monday. After 61 days, it will be:	+	Wednesday
		(D)	Saturday

		c)	Tuesday
		d)	Thursday
	A can run 22.5 m while B runs 25 m. In one	u)	Tridisday
23	kilometre race B beats A by:	a)	102 m
		b)	100 m
		c)	75 m
		d)	112.5 m
24	A sum of Rs. 12,500 amounts to Rs. 15,500 in 4 years at the rate of simple interest. What is the rate of interest?	a)	3%
		b)	4%
		c)	5%
			6%
25	The simple interest at x% for x years will be Rs. x on sum of		Rs. x
		b)	Rs. (100/x)
		c)	Rs. 100x
		d)	Rs. (100/x*x)
	Numerical ability(10marks)		
26	Find the least value of * for which 7*5462 is divisible by 9	a)	3
		b)	12
		c)	2
		d)	None of above
27	If the number 5 * 2 is divisible by 6, then * = ?	a)	2
		b)	7
		c)	3
		d)	6
28	What fraction of an hour is a second		1/24
			1/60
		c)	1/120
		-	1/3600
29	If a - b = 6 and $a^2 + b^2 = 116$, then what is the value of ab?	ĺ	20
		b)	40
			60
		-	80
30	If x% of a is same as y% of b then z% of b is		xy/z % of a
	11 21 21 12 2 2 3 2 3 2 3 2 1 2 1 2 1 2		yz/x % of a
			xz/y % of a
			None of above
		ч <i>)</i>	I TOTIC OF GROVE

Answer Key											
1	С	2	D	3	Α	4	A	5	В	6	С
11	С	12	С	13	D	14	Α	15	В	16	В
21	Α	22	В	23	В	24	D	25	В	26	Α

7	C	8	ם	9	Α	10	D
17	В	18	D	19	С	20	В
27	Α	28	D	29	В	30	С