EE 1910

Dr. Johnson

Test 1

No calculator No notes

1 – Terminology - all topics	10pts							
2 – Flow Diagram								
3 – Decimal / Binary conversions								
4 – Hex conversions.	10pts							
5 – Evaluate each of the following expressions – given:	10pts							
6 - Evaluate each of the following expressions - given:	10pts							
7 – Evaluate each of the following expressions – given:	10pts							
8 – Evaluate each statement– given:	10pts							
9 - Evaluate each of the following logical expressions - given:	10pts							
10 - Lab coding (register setup / usage)	5pts							
10 – Lab circuits	5pts							

C – Operator Precedence

recedence	Operator	Description	Associativity		
1	++	Suffix/postfix increment and decrement	Left-to-right		
	0	Function call			
	0	Array subscripting			
		Structure and union member access			
	->	Structure and union member access through pointer			
	(type){list}	Compound literal(C99)			
	++	Prefix increment and decrement	Right-to-left		
	+-	Unary plus and minus			
	! ~	Logical NOT and bitwise NOT			
2	(type)	Type cast			
	*	Indirection (dereference)			
	&	Address-of			
	sizeof	Size-of			
	_Alignof	Alignment requirement(C11)			
3	* / %	Compound literal(C99) Prefix increment and decrement Unary plus and minus Logical NOT and bitwise NOT Type cast Indirection (dereference) Address-of Size-of Alignment requirement(C11) Multiplication, division, and amainter Addition and subtraction Bitwise left shiftfant with shift	Left-to-right		
4	+-				
5	<<>>>	Bitwise left shift and right			
_	< <=	For relational porators < and ≤ respectively			
6	>>=	For relation I operators > and ≥ respectively			
7	== !=	For elational = and ≠ respectively			
8	&	Bitwise AND			
9	۸	Bitwise XOR (exclusive or)			
10	I	Bitwise OR (inclusive or)			
11	&&	Logical AND			
12	H	Logical OR			
13	?:	Ternary conditional	Right-to-Left		
14	=	Simple assignment			
	+= -=	Assignment by sum and difference			
	*= /= %=	Assignment by product, quotient, and remainder			
	<<= >>=	Assignment by bitwise left shift and right shift			
	&= ^= =	Assignment by bitwise AND, XOR, and OR			
15		Comma	Left-to-right		

ASCII TABLE

Decimal	Hexadecimal	Binary	Octal	Char	Decimal	Hexadecimal	Binary	0ctal	Char	Decimal	Hexadecimal	Binary	Octal	Char
)	0	0	0	[NULL]	48	30	110000	60	0	96	60	1100000	140	
	1	1	1	[START OF HEADING]	49	31	110001	61	1	97	61	1100001	141	а
3	2	10	2	[START OF TEXT]	50	32	110010	62	2	98	62	1100010	142	ь
3	3	11	3	[END OF TEXT]	51	33	110011	63	3	99	63	1100011	143	C
1	4	100	4	[END OF TRANSMISSION]	52	34	110100	64	4	100	64	1100100	144	d
5	5	101	5	[ENQUIRY]	53	35	110101	65	5	101	65	1100101	145	e
6	6	110	6	[ACKNOWLEDGE]	54	36	110110	66	6	102	66	1100110	146	f
7	7	111	7	[BELL]	55	37	110111	67	7	103	67	1100111	147	g
8	8	1000	10	[BACKSPACE]	56	38	111000	70	8	104	68	1101000	150	h
9	9	1001	11	[HORIZONTAL TAB]	57	39	111001	71	9	105	4.9	1101001	151	1
10	A	1010	12	[LINE FEED]	58	3A	111010	72	:	106	6	1101010	152	j
11	В	1011	13	[VERTICAL TAB]	59	38	111011	73		40.	68	1101011	153	k
12	C	1100	14	[FORM FEED]	60	3C	111100	74	<	7.6	6C	1101100	154	1
13	D	1101	15	[CARRIAGE RETURN]	61	3D	1111101	15		OP.	6D	1101101	155	m
14	E	1110	16	[SHIFT OUT]	62	3E	111110	76	>	110	6E	1101110	156	n
15	F	1111	17	[SHIFT IN]	63	3F	1111111	17	7	111	6F	1101111	157	0
16	10	10000	20	[DATA LINK ESCAPE]	64	40	200000	1.00	0	112	70	1110000	160	P
17	11	10001	21	[DEVICE CONTROL 1]	65	41	10 0001	101	A	113	71	1110001	161	q
18	12	10010	22	[DEVICE CONTROL 2]	66	42	100.010	102	В	114	72	1110010	162	r
19	13	10011	23	[DEVICE CONTROL 3]	67	43	1000011	103	C	115	73	1110011	163	5
20	14	10100	24	[DEVICE CONTROL 4]	68	44	1000100	104	D	116	74	1110100	164	t
21	15	10101	25	[NEGATIVE ACKNOWLEDGE]	59	45	1000101	105	E	117	75	1110101	165	u
22	16	10110	26	[SYNCHRONOUS IDL]		46	1000110	106	F	118	76	1110110	166	v
23	17	10111	27	[ENG OF TRANS. ZOU?]	7	47	1000111	107	G	119	77	1110111	167	W
24	18	11000	30	[CANCEL]	12	48	1001000	110	H	120	78	1111000	170	×
25	19	11001	31	[END OF LEDIUM]	73	49	1001001	111	1	121	79	1111001	171	У
26	1A	11010	32	TUBS STOTE!	74	4A	1001010	112	J	122	7A	1111010	172	Z
27	18	11011		(ES APE)	75	4B	1001011	113	K	123	7B	1111011	173	{
28	1C	1110	34	[FIT SEPARATOR]	76	4C	1001100	114	L	124	7C	1111100	174	1
29	1D	111/4	3.5	[GROUP SEPARATOR]	77	4D	1001101	115	M	125	7D	1111101	175	}
30	16	1110	30	[RECORD SEPARATOR]	78	4E	1001110	116	N	126	7E	1111110		-
31	1F	1111	37	[UNIT SEPARATOR]	79	4F	1001111	117	0	127	7F	1111111	177	[DEL
32	20	100000	40	[SPACE]	80	50	1010000	120	P	4-500				
33	21	100001	41	1	81	51	1010001	121	Q	ı				
34	22	100010	42		82	52	1010010	122	R	I				
35	23	100011	43	#	83	53	1010011	123	5	I				
36	24	100100	44	\$	84	54	1010100	124	T	I				
37	25	100101	45	%	85	55	1010101	125	U	I				
38	26	100110	46	&	86	56	1010110	126	V	I				
39	27	100111	47		87	57	1010111	127	W	I				
10	28	101000	50	(88	58	1011000	130	X	I				
41	29	101001)	89	59	1011001		Y					
12	2A	101010			90	5A	1011010		Z					
43	2B	101011		+	91	5B	1011011		I					
14	2C	101100			92	5C	1011100		1					
45	2D	101101			93	5D	1011101		1					
46	2E	101110			94	5E	1011110		^					
47	2F	101111		1	95	5F	1011111			1				