## USCS101 - COD

Q.P. Code: 754601

## (2½ Hours)

**Total Marks 75** 

NOTE:	<ol> <li>All questions are compulsory.</li> <li>Figures to the right indicate full marks.</li> <li>Illustrations, in-depth answers and diagrams will be appreciated.</li> <li>Mixing of sub-questions is not allowed.</li> </ol>
1. 1) Atta	
	empt All Questions.  ect correct answer from the following:  The Number of bits in ASCII code are  a) 2 b) 32 c) 16 d) 8  Which of the following system is digital?  a) Electrical switch b) Electronic counter
i)	The Number of bits in ASCII code are
-7	a) 2 b) 32 c) 16 d) 8
ii)	Which of the following system is digital?
,	a) Electrical switch b) Electronic counter
	c) Mercury Thermometer d) Both a & b
iii)	The program written in our own alphanumeric characters is called
	a) Object code  b) Executable code
	c) Source code d) None of the above,
iv)	The duplicate registers are sometimes called as .
	a) Copy registers b) Shadow registers
	c) Mirror registers d) None of the above.
v)	The number of data registers in coldfire processor is
	a) 10 b) 5 c) 8 d) 4 \rightarrow \frac{1}{2}
b) Fill in	n the blanks
i)	Methematician developed rules for manipulating binary variables.
ii)	If one of the input to an OR gate is high its output will be
iii)	The term used for converting alphabets, numbers into binary is
iv)	A K-map of 'n yariables contains cells.
v)	CISC stands for
c) Short	V.3.
i)	What is BCD?
ii)	What is the binary equvalent of decimal 22?
iii)	State any two mnemoric names used in assembly language & their role.
į iv)	State the types of machine instructions

Define exception.

2.	A	Attempt the following (Any Three):	15
	a	Write a note on computer number system.	
	b	) State the basic logic gates. Explain any one.	
	c	h man a company of the company of th	7
	ď		15×
	e)		2.00
	f)	What is multiplexer? Explain its use.	7.3
			2.
3.	A	ttempt the following (Any Three):	15
	a)	Describe memory organisation in brief.	
	b)	Write a note on CISC instruction set.	
	c)	Which type of addressing mode is useful while dealing with List & arrays? Explain.	
	d)	State & explain the ways of byte address assignment.	
	e)		
		LOADRINI	
		LOAD R2 N2	
		ADD R2 R2 R1	
	f)	Write a note on assembly language.	
		Co-Co-Co-Co-Co-Co-Co-Co-Co-Co-Co-Co-Co-C	
4.	A	ttempt the following (Any Three):	15
	a)		
	b)	1 0 -0 0	
	c)	The state of the s	
	d)	What is the concept of interrupts? Give example.	•
	e)	Explain sequence of actions during branch instruction.	
	f)	Explain program controlled 1/0.	
5.		tempt the following (Any Three):	15
	a)	Write note on full adder.	
	b)	With example explain indexed addressing.	
	c)	What are the components of processor?	
	d)	Convert decimal 3521 to binary & octal form.	
4	e)	Discuss addressing modes supported by NIOS II processor.	
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