



KNS INSTITUTE OF TECHNOLOGY

DEPARTMENT OF CSE/ I SE

Question Bank for 1st IA Test

Academic Year : (2021 – 2022)

Semester	7th	Subject Code	18CS61	Subject Name	SYSTEM SOFTWARE & COMPIILER DESI GN
Faculty	SRUJANA. S. N				
Date	20 / 1 / 2021				

COURSE OUTCOMES:

CO 1: Knowledge about System Software

CO2: Designing of assembly level source programs

CO3: Creation of object file from source file using datastructures and algorithm

The following are the knowledge levels according to Bloom's taxonomy.

L1 Remember L2 Understand L3 Apply L4 Analyze L5 Evaluate L6 Create

Q	SYLLABUS : 2MODULES	M	CO	Knowledge level
1	Explain SIC Architecture.	8	CO1	L1, L2, L6
2	Explain SIC- XE Architecture.	8	CO1	L1, L2, L4
3	Explain the pass- 1 algorithm and the datastructures used.	8	CO3	L1, L2
4	Explain the pass- 2 algorithm	8	CO3	L1, L2
5	List and explain various Addressing modes used in SIC- XE Architecture.	8	CO2	L1, L2, L4
6	Generate the object code for the following 0000 +JSUB RDREC 0004 STL RTADR 0008 LDB #LENGTH 000A CLEAR X Given the opcodes JSUB= 48 , STL= 14, LC= 60 , CLEAR= B4 LOCCTR values for RDREC= 1036, RETADR= 0030, LENGTH= 0033 MNUEMONI C values for the Registers are A= 0, X= 1, L= 2, B= 3, S= 4, T= 5, F= 6, PC= 8, SW= 9	8	CO3	L1, L2
7	Explain the different machine independent features.	8	CO1, CO3	L1, L2
8	Explain program Relocation with a diagram and its modification record with a example.	8	CO1, CO3	L1, L2
9	Explain the following assembler directives i. BYTE ii. RESW	8	CO2	L1, L2



Edit with WPS Office

	iii. RESB iv. WORD v. USE			
10	Explain the differences between system software and application software.	9	CO4	L1, L2, L4
11	<p>Generate the object program for the following SIC/ XE assembly program</p> <pre> WRREC START 40 5D CLEAR X WLOOP LDT LENGTH TD OUTPUT JEQ WLOOP LDCH BUFFER ,X WD OUTPUT JLT WLOOP RSUB OUTPUT BYTE X'05' END Address of the buffer 40 33 Address of length 40 36 Opcodes CLEAR= B4, JEQ= 30 , WD= 0 C, LDT= 74, LDCH= 50 , TIXR= B8, RSUB= 4C </pre>	8	CO4, CO5	L1, L2
12	Explain various instruction formats used in SIC- XE Architecture.	9	CO4	L1, L2

Signature of HOD

