

**GOVT. COLLEGE OF ENGINEERING, AMRAVATI**

**Department of Computer Science and Engineering**

CLASS TEST-III Self Study (Winter 2017) B.Tech . 5<sup>th</sup> Semester  
System Programming

Time: 1.30 hrs.

**Marks:**

**CSU501**

**GOVERNMENT COLLEGE OF ENGINEERING, AMRAVATI**  
**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**  
**CLASS TEST I - WINTER 2017**

**COURSE CODE: CSU 501 –System Programming**

**TIME: 1.hr**

Solve any two. Each question carries 5 Marks

Q1. Illustrate operating system user viewpoint as function and Facility

Q2. Draw and Explain general machine structure in detail

Q3. Draw and explain Pass 2 overview flowchart of assembler in brief.

Solve

Q4. Write an ALP Program for the following Instruction and also Draw MOT, ST and LT.

$$\text{RESULT} = (5^2 + \text{FIVE}) + (10^2 + \text{TEN}) / (20^2 - \text{TWENTY})$$

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TIME: 1hr

MAX MARK: 15

ve the following. Each question carries 5 marks.

Write a 360 assembly code for interchange and shell sort. Explain with example.

Or

Explain bucket sort and Radix Exchange sort for 19,13,01,26,30,05,02,11

What is the need of loader? Explain relocation loader in brief with example

Draw and explain Pass-1 Flowchart of Loader in brief.

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**TIME: 1hr**

**MAX MARK: 15**

Solve the following. Each question carries 5 marks.

Q1. Illustrate the IBM 360 machine instruction format. Clarify the use of IBM 360 machine register in formation of Addressing memory locations.

**OR**

Q2. Draw the IBM 360 machine architecture? Illustrate the working of each component in brief.

Q3. Draw the pass 1 Flowchart for macro? Explain with suitable example.

Q4. Generate the Machine-op Table, Symbol Table, and Literal Table for the following code

	SIMPLE	START		L	1,	FOUR
		BALR 15 0		BNE	LOOP	
		USING * 15		BR	14	50
LOOP	L	R1, TWO	R1	EQU	1	
	A	2, TWO=F'3'	TWO	DC	F'2'	
	ST	R1, FOUR	FOUR	DS	F'3'	