

**Question Bank (G scheme)**

**Name of subject: MICROPROCESSOR AND PROGRAMMING**

**Unit Test: I**

**Subject code: 17431**

**Course: CM4G**

**Semester: IV**

<b>CHAPTER NO 1: Basics of Microprocessor (8 marks)</b>	
<b>Q NO:</b>	<b>3marks QUESTIONS</b>
1.	Describe the function of ALU group.
2.	Explain features of 8085.
3.	Draw and explain flag register of 8085.
4.	State the function of following pins of 8085 i) ALE ii) SID and SOD iii) HOLD & HLDA
5.	State the maskable interrupt with vector addresses.
	<b>4marks QUESTIONS</b>
6.	Describe i) Timing and control unit of 8085 ii) General purpose register of 8085
7.	Draw the neat labeled architecture of 8085 indicating different signals of all the blocks.
8.	Explain the function of instruction register, program counter, stack pointer and instruction decoder.
<b>Chapter2: 16 Bit Microprocessor: 8086 (24 marks)</b>	
	<b>3marks QUESTIONS</b>
9.	Define logical and physical address. Explain the address generation process in 8086 of DS=3458H and SI=13DC H. Calculate physical address.
10.	What is pipelining concept and explain with example.
11.	Explain the flag register in 8086 and list the different categories of flags.4) Explain memory segmentation with diagram and advantages.
12.	Explain features of 8086.

13	List the features of clock generator 8284.
14	List the pins for 8086 for maximum mode.
	<b>4marks QUESTIONS</b>
15.	Explain block diagram of 8284 clock generator.
16.	Describe the function of bus controller 8288 with its function diagram.
17.	Differentiate between maximum and minimum mode of 8086.
18.	Draw 8086 architecture block diagram.
19.	Differentiate between microprocessor 8085 and 8086.
20.	Describe the pins for 8086 for minimum mode.
<b>CHAPTER NO 3: Instruction Set of 8086 Microprocessor (MARKS 10)</b>	
	<b>3marks QUESTIONS</b>
21.	Explain the following instructions i)PUSH ii)OUT iii)XLAT
22.	Explain the following instructionsi)CMP ii)DAS iii)MUL
23	Explain thee following instructions i)MOV ii) ADC ii) DIV
	<b>4marks QUESTIONS</b>
24.	List addressing modes of 8086 and explain any two in brief.
25	Explain instruction format.