

V.P. & R.P.T.P. SCIENCE COLLEGE
T.Y.B.Sc. (SEMESTER – VI)
INTERNAL TEST : MAR - 2019

US06CCSC04 : Introduction to Microprocessors and Assembly Language

DATE : 09/03/2019

TIME : 10:00AM to 12:00NOON

MARKS : 50

- Q.1 Multiple Choice Question. 08
- The word _____ is the derivative of the word process that means to carry out systematic operation on data.
(a) Processor (b) Prograssive (c) Progression (d) None of above
 - The ASSUME directive is used to tell the assembler the name of the _____ segment it should use for a specified segment.
(a) Physical (b) Logical (c) Both (a) & (b) (d) None of above
 - The instruction adds immediate number 74H to contents of AL. Result in AL.
(a) ADD AL, 74H (b) ADC CL, BL (c) ADD CL, BL (d) None of these
 - The instruction subtracts immediate number 3427H from AX.
(a) SUB AX,3427H (b) SUB CX, 3427H
(c) SUB DX, 3427H (d) None of these
 - The instruction _____, Jump to label RUN_PRESS if AX above or Equal to 4371H.
(a) JAE RUN_PRESS (b) JA RUN_PRESS
(c) JE RUN_PRESS (d) None of these
 - _____ compares a byte in AL or a word in AX with a byte or word pointed to by DI in ES.
(a) SCAS (b) SCASBM (c) SCASRE (d) None of these
 - _____ Structures are structures that are stepped through sequential.
(a) Sequential (b) Non-sequential (c) Index (d) None of these
 - The repeat...until loop tests for the termination condition at the _____ of the loop
(a) begin (b) end (c) Middle (d) None of these
- Q.2 Answer the following in short. (Any Five) 10
- What is EXTRN?
 - What is EQU?
 - Explain INC instruction with example.
 - Explain the DIV instruction.
 - Write the full form of JNE/JNZ and also state its function.
 - Write the full form of JA/JNBE and also state its function.
 - What is model directive in Assembly Program?
 - What is a Segment directive in Assembly Program?
- Q.3 Write short note on the 8086 Microprocessor Family overview. 08
- OR
- Q.3 Explain in brief the Segment Registers. 08
- Q.4 Explain the following Arithmetic Instructions with examples. 08
- DEC
 - IMUL
 - CMP
- OR
- Q.4 Explain the following Data Transfer Instructions with examples. 08
- MOV
 - XCHG
 - LEA
- Q.5 Explain the following instructions with example. 08
- LOOP
 - LOOPZ
 - LOOPNE
- OR
- Q.5 Explain the following instructions with example. 08
- JCXZ
 - JNO
 - JS
- Q.6 Write short note on implementation of looping structures: WHILE-DO 08
- OR
- Q.6 Write short note on how IF... THEN...ELSE structure is implemented in Assembly program. 08

