

S-713

Total Pages : 3

Roll No. -----

MSCIT-05

Computer Organization & Architecture

(MSCIT)

2nd Semester, Examination 2022(Dec.)

Time: 2 Hours

Max. Marks: 70

Note : This paper is of Seventy (70) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

Section – A

(Long Answer – type questions)

Note: Section 'A' contains Five (05) long-answer-type questions of Nineteen (19) marks each. Learners are required to answer any two (02) questions only.

[2 x 19 = 38]

P.T.O.

- Q.1. Describe Concepts of auxiliary, Associative, Cache and Virtual Memory.
- Q.2. What is Interrupts? Describe accessing Input/ Output device?
- Q.3. Write Short Note on Arithmetic Pipelining, Instruction Pipelining, RISC Pipelining.
- Q.4. (a) Explain the fetch and execute cycle during execution of an instruction?
(b) What do you mean by Serial Communication?
- Q.5. Write short note on:
(i) SISD (ii) SIMD
(iii) MIMD (iv) MISD

Section – B

(Short-answer-type questions)

Note: Section 'B' contains Eight (08) short-answer-type questions of Eight (08) marks each. Learners are required to answer any Four (04) questions only.

[4 x 8 = 32]

- Q.1. What are different logic gates? Draw their graphic and algebraic function.
- Q.2. What is time space diagram. Write the characteristic of Multiprocessor.
- Q.3. Explain DMA with diagram & its transfer modes?
- Q.4. Write Future Directions for Parallel Processors?
- Q.5. Explain Interrupt controlled I/O transfer?
- Q.6. Explain & draw block diagram of Parallel Processing?
- Q.7. Describe Secondary storage and type of storage devices?
- Q.8. Differentiate between primary & secondary memory. What is cache memory?
