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GIET UNIVERSITY, GUNUPUR – 765022
 M. C. A(First Semester) Examinations, May - 2021
MC20102– COMPUTER ORGANIZATION AND ARCHITECTURE

Time: 2 hrs

Maximum: 50 Marks

(The figures in the right hand margin indicate marks.)

PART – A**(2 x 10 = 20 Marks)**Q.1. Answer *ALL* questions

- a. Define BUS Structures
- b. Define Addressing Modes
- c. Write any 2 differences between RISC and CISC
- d. Define K-Map
- e. Define ROM
- f. What is Virtual Memory?
- g. What are the different types of Flash drives
- h. Define Programmed I/O
- i. Define DMA
- j. Differentiate between Array Processing and Vector Processing

PART – B**(6 x 5 = 30 Marks)**Answer *ANY FIVE* questions

Marks

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| 2. Discuss about different types of addressing modes. | (6) |
| 3. Write an algorithm for the division of floating point number and illustrate with an example. | (6) |
| 4. Write a short note on ALU. | (6) |
| 5. Discuss the different mapping techniques used in cache memories and their relative merits and demerits. | (6) |
| 6. Give comparison between memory mapped I/O and I/O mapped I/O. | (6) |
| 7. Discuss about Synchronous and Asynchronous Data transfer. | (6) |
| 8. Explain about parallel processing in detail | (6) |

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