# Sanjay Ghodawat University, Kolhapur

2020-21

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EXM/P/09/00

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| **Year and Program: T.Y.B.Tech CSE** | **School of Technology** | **Department: : Computer Science and Engineering** |
| **Course Code: CST 302** | **Course Title: Computer Organization and Architecture** | **Semester : VI** |
| **Day :Monday**<br>**Date: 19/07/2021** | **Re-End Semester Examination** | **Time:2 Hrs.**<br>**Max Marks:50** |

**Instructions**: 1) All Questions are compulsory.

2)Draw neat and suitable diagrams whenever necessary.

| | | Marks | Bloom's Level | CO |
|---|---|---|---|---|
| **Q.1** | **Answer/Solve the following (any Two)** | | | |
| a) | Classify computers based on instruction and data streams | 8 | 4 | 1 |
| b) | What is CRAY-1 ? Explain it with neat diagram. | 8 | 1 | 1 |
| c) | Explain C-Access memory organization. | 8 | 2 | 2 |
| **Q.2** | **Answer/Solve the following (any two)** | | | |
| a) | Distinguish and Illustrate the features of Tightly Coupled Multiprocessor with and without private cache | 8 | 2 | 3 |
| b) | Explain with a neat diagram Principle of Multithreading. | 8 | 5 | 2 |
| c) | Discuss Cm* architecture in detail. | 8 | 3 | 4 |
| **Q.3** | **Answer/Solve the following (any two)** | | | |
| a) | Analyze Data dependency and Explain Bernstein's condition of parallelism in detail | 9 | 4 | 4 |
| b) | Identify and Explain levels of Parallelism in program partitioning and scheduling. | 9 | 3 | 4 |
| c) | Explain GPU architectures in detail. | 9 | 2 | 4 |

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