

H.T No:

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**R18**

Course Code: B30229



**CMR COLLEGE OF ENGINEERING & TECHNOLOGY**  
(UGC AUTONOMOUS)

M.Tech III Semester Regular & Supplementary Examinations Feb/March-2023

Course Name: **HARDWARE SOFTWARE CO-DESIGN**

(Embedded Systems)

Date: 27.02.2023 AN

Time: 3 hours

Max.Marks: 70

(Note: Assume suitable data if necessary)

**PART-A**

Answer all FIVE questions (Compulsory)

Each question carries FOUR marks.

5x4=20M

1. Discuss about Distributed system co-synthesis. 4M
2. List different future developments in emulation. 4M
3. Distinguish between design specialization and verification. 4M
4. Discuss about design representation for system level synthesis. 4M
5. Discuss the multi-language co-simulation 'The Cosyma System'. 4M

**PART-B**

Answer the following. Each question carries TEN Marks.

5x10=50M

6. A). Discuss the architecture for control dominated systems. 10M
- OR**
6. B). Discuss the future developments in emulation and prototyping. 10M
7. A). Interpret the various future developments in emulation. 10M
- OR**
7. B). Explain in detail about need for software development for embedded architecture. 10M
8. A). Describe the problems occurred when adapting traditional compilation model to embedded Processor. 10M
- OR**
8. B). List the practical considerations in a compiler development environment. 10M
9. A). Explain about synchronous and asynchronous computations in design specifications and verification. 10M
- OR**
9. B). Illustrate about the concepts of Design verification and Implement verification. 10M
10. A). Discuss about design representation for system level synthesis. 10M
- OR**
10. B). Explain homogeneous system level specification in detail. 10M

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H.T No:

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**R18**

Course Code: B30533



**CMR COLLEGE OF ENGINEERING & TECHNOLOGY**

(UGC AUTONOMOUS)

M.Tech III Semester Regular & Supplementary Examinations Feb/March-2023

Course Name: PYTHON PROGRAMMING

(Common for ES & CSE)

Date: 01.03.2023 AN

Time: 3 hours

Max.Marks: 70

(Note: Assume suitable data if necessary)

**PART-A**

Answer all FIVE questions (Compulsory)

Each question carries FOUR marks.

5x4=20M

1. Explain about Python Programming Development cycle with neat diagram. 4M
2. Explain about Global Variables and Global Constants with an Example. 4M
3. Explain about built in functions with Proper Examples. 4M
4. Explain how the polymorphism works in python Programming. 4M
5. Explain the use and importance of the Radio Buttons with examples. 4M

**PART-B**

Answer the following. Each question carries TEN Marks.

5x10=50M

6. A). Explain about input and output processing with proper examples. 10M
- OR
6. B). Explain the nested decision structures in detail with proper examples. 10M
7. A). Demonstrate about passing arguments to Function with good examples. 10M
- OR
7. B). Demonstrate about storing Functions in modules with good examples. 10M
8. A). Demonstrate about two Dimensional Lists with good examples. 10M
- OR
8. B). Demonstrate about Serializing objects in modules with good examples. 10M
9. A). Examine the various differences between Procedure and Object Oriented Programming. 10M
- OR
9. B). Explain various important techniques for Designing the classes. 10M
10. A). Demonstrate about using the Tkinter modules with good examples. 10M
- OR
10. B). Demonstrate about using labels as output fields with good examples. 10M

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