

B How machine-independent code optimization is carried out with different strategies? [7M]

SECTION-V

9 *A* Discuss global optimization techniques. [7M]

B What is liveness? Explain live variable analysis with an example. [7M]

OR

10 *A* Illustrate the various issues associated with target language generation [7M]

B Give an example of how register allocation is done using DAG. [7M]

Code No: **R18A0511****MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY****(Autonomous Institution – UGC, Govt. of India)****III B.Tech I Semester Supplementary Examinations, June/July 2024****Software Engineering****(CSE)**

Roll No									
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Time: 3 hours**Max. Marks: 70**

Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing ONE Question from each SECTION and each Question carries 14 marks.

SECTION-I

- 1 **A** What is the layered technology of software engineering? Explain in detail. [7M]
 B Explain why incremental development is the most effective approach for
 developing business Software Systems. [7M]

OR

- 2 **A** Explain the Evolutionary Process Model. [7M]
 B What are the 5 stages of the waterfall methodology? [7M]

SECTION-II

- 3 Differentiate between functional and non- functional requirements [14M]

OR

- 4 **A** Draw the complete DFD at least up to 2-levels for a library management
 system. [7M]
 B What are the activities of requirements elicitation and analysis? [7M]

SECTION-III

- 5 **A** Define Architecture Styles. List and Explain different kinds of Architecture
 Styles and Patterns. [7M]
 B List the guidelines for data design. [7M]

OR

- 6 **A** Explain modularity, Refinement and Re - factoring in Software Design
 Process. [7M]
 B What are the steps in interface analysis? [7M]

SECTION-IV

- 7 **A** What are the Metrics for Design Model. [7M]
 B Distinguish between White Box Testing and Black Box Testing. [7M]

OR

- 8 **A** Briefly describe System testing. [7M]
 B Explain metrics for Testing and Maintenance. [7M]

SECTION-V

- 9 **A** Discuss about Statistical Software quality Assurance. [7M]
 B Illustrate the features of CMMI. [7M]

OR

- 10 **A** Write a short note on Risk projection. [7M]
 B What is RMMM? Explain. [7M]

Code No: **R18A0513****MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY**

(Autonomous Institution – UGC, Govt. of India)

III B.Tech I Semester Supplementary Examinations, June/July 2024**Python Programming****(CSE & IT)**

Roll No									
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Time: 3 hours**Max. Marks: 70**

Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing ONE Question from each SECTION and each Question carries 14 marks.

SECTION-I

- 1 A Show indexing and slicing with different data type structures? [7M]
B Illustrate expression with an example? [7M]

OR

- 2 A Write a short note on history and features of python? [7M]
B Does mutability support for list, if yes explain any two methods with example? [7M]

SECTION-II

- 3 A List and define different types of python iteration statements with syntax? [7M]
B Briefly describe about break and continue statements? [7M]

OR

- 4 A Write any program using function and explain how the flow of execution happened? [7M]
B Discuss passing arguments keyword arguments and with example. [7M]

SECTION-III

- 5 A Differentiate the function, fruitful function and anonymous functions with example each? [7M]
B Define lambda, filter, map and reduce functions? [7M]

OR

- 6 A Write the difference between parameter and arguments in functions and explain with an example? [7M]
B Write a program to create a menu with the following options [7M]
1. Area of a circle 2. Area of a triangle 3. Area of a rectangle

SECTION-IV

- 7 A Demonstrate pandas and numpy module with examples? [7M]
B What is the importance of 'pip'? Explain. [7M]

OR

- 8 A What are the advantages of modularizing code in large applications? [7M]
B Write a python program to write the content "welcome to python world" for the existing file? [7M]

SECTION-V

- 9 A Write a python program to create an empty class? [7M]
B Differentiate between compile-time and run-time polymorphism? [7M]

OR

- 10 A Write a program to find sum of two numbers using class and methods? [7M]
B Develop your choice of application using Django framework? [7M]

Code No: R18A0464

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

III B.Tech I Semester Supplementary Examinations, June/July 2024**Embedded Systems****(CSE & IT)**

Roll No									
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Time: 3 hours**Max. Marks: 70**

Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing ONE Question from each SECTION and each Question carries 14 marks.

SECTION-I

- 1 A Explain the different addressing modes of 8086 microprocessor. [7M]
 B Discuss about the memory segmentation in 8086. [7M]
- OR
- 2 A Discuss the Logical and Program Branching instructions of 8051 with examples. [7M]
 B Explain in detail of about memory organization in 8051. [7M]

SECTION-II

- 3 A Explain the classification of embedded systems based on the complexity and generation. [7M]
 B Describe the characteristics of Embedded Systems. [7M]
- OR
- 4 A Discuss in detail about operation attributes of embedded systems. [7M]
 B Explain any two applications of embedded systems in detail. [7M]

SECTION-III

- 5 A List all the categories of embedded core and any two in detail. [7M]
 B Discuss about LED, seven segment display [7M]
- OR
- 6 A Explain the I2C bus interfacing with neat schematic. [7M]
 B Describe the different pin connections of RS-232 communication interface. [7M]

SECTION-IV

- 7 A Explain the limitations/drawbacks of assembly language based embedded firmware development [7M]
 B Discuss about super loop based approach of embedded firmware design. [7M]
- OR
- 8 A Explain the declaration and initialization of structure variables. [7M]
 B What is interrupt? Explain its properties. What is its role in embedded application development? [7M]

SECTION-V

- 9 A Explain the loops and conditional statements in Embedded C. [7M]
 B Discuss the various functions in Embedded C. [7M]
- OR
- 10 A Explain the logical and relational operators in Embedded C. [7M]
 B Discuss about usage of pointers in Embedded C with syntaxes. [7M]

Code No: R18A0353

MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

(Autonomous Institution – UGC, Govt. of India)

III B.Tech I Semester Supplementary Examinations, June/July 2024

Enterprise Resource Planning

(CSE)

Roll No									
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Time: 3 hours

Max. Marks: 70

Note: This question paper Consists of 5 Sections. Answer **FIVE** Questions, Choosing ONE Question from each SECTION and each Question carries 14 marks.

SECTION-I

- 1 **A** What is ERP? give an overview. [7M]
 B What is Enterprise Resource Planning? List out the benefits (tangible and intangible) of ERP to an organization. [7M]

OR

- 2 **A** What is meant by business process reengineering? [7M]
 B Discuss the reasons of growth of ERP Market. [7M]

SECTION-II

- 3 **A** Discuss the important parameters to be considered for preparing of ERP Systems for business organization. [7M]
 B Explain the major ERP supported functions in organizations and its benefits. [7M]

OR

- 4 **A** State some major subsystems of manufacturing module. [7M]
 B Explain in detail the concept of Product Life Cycle Management. [7M]

SECTION-III

- 5 **A** Explain The Subsystems of Plant Maintenance Module in ERP. [7M]
 B Explain the major ERP supported functions in organizations and its benefits. [7M]

OR

- 6 **A** Describe about the ERP functional module in financial management [7M]
 B What are the main modules of Materials Management module? [7M]

SECTION-IV

- 7 **A** What are the implementation methodologies of ERP software? [7M]
 B What sort of analysis is carried out at post-implementation stage of ERP? [7M]

OR

- 8 **A** State the process of ERP maintenance and how to reduce the ERP maintenance cost? [7M]
 B How does a company ensure that its ERP investment pays off in increased profitability? [7M]

SECTION-V

- 9 **A** How are the ERP systems enabled with internet? [7M]
 B How is ERP used in CRM? [7M]

OR

- 10 **A** How is the internet used in Cloud computing process? [7M]
 B How is the Business Analytics process used in ERP? [7M]
