

Code No: P18EST03

HALL TICKET NUMBER

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PACE INSTITUTE OF TECHNOLOGY & SCIENCES::ONGOLE
(AUTONOMOUS)

I B.TECH I SEMESTER END SUPPLEMENTARY EXAMINATIONS, FEB - 2023
C-PROGRAMMING FOR PROBLEM SOLVING
(Common to All Branches)

Time: 3 hours

Max. Marks: 60

Note: Question Paper consists of Two parts (Part-A and Part-B)

PART-A

Answer all the questions in Part-A (5X2=10M)

| Q.No. | Questions | Marks | CO | KL |
|-------|--|-------|----|----|
| 1 | a) Define i) Software ii) Program. | [2M] | 1 | 1 |
| | b) While Loop vs Do-While Loop. | [2M] | 2 | 2 |
| | c) How to Pass an array to function. | [2M] | 3 | 3 |
| | d) Discuss about string manipulation function. | [2M] | 4 | 2 |
| | e) What is the Syntax of Structure and Union? | [2M] | 5 | 2 |

PART-B

Answer One Question from each UNIT (5X10=50M)

| Q.No. | Questions | Marks | CO | KL |
|----------|---|-------|----|----|
| UNIT-I | | | | |
| 2. | a) What is algorithm? Write an Algorithm to addition of N numbers. | [5M] | 1 | 3 |
| | b) What are the steps to be followed to solve logical and numerical problems? | [5M] | 1 | 2 |
| OR | | | | |
| 3. | a) Define Flowchart. Discuss Flowchart symbols. | [5M] | 1 | 2 |
| | b) Discuss about software development process. | [5M] | 1 | 2 |
| UNIT-II | | | | |
| 4. | a) Discuss about different operators used in C Programming. | [5M] | 2 | 3 |
| | b) Write a program using If-Else -If statements in C Programming. | [5M] | 2 | 3 |
| OR | | | | |
| 5. | a) Discuss about different expressions used in C Programming. | [5M] | 2 | 2 |
| | b) Write a program using Switch Statement in C program. | [5M] | 2 | 3 |
| UNIT-III | | | | |
| 6. | a) Discuss about C user defined functions. | [5M] | 3 | 2 |
| | b) Write a C Program to find largest of N numbers using FOR loop. | [5M] | 3 | 3 |
| OR | | | | |
| 7. | a) Discuss about C Recursive functions with Syntax. | [5M] | 3 | 2 |
| | b) Write a C Program to find smallest of N numbers using FOR loop. | [5M] | 3 | 3 |
| UNIT-IV | | | | |
| 8. | a) Discuss about operations on Pointers. | [5M] | 4 | 2 |
| | b) Write a C program to find given string is Palindrome or Not. | [5M] | 4 | 3 |
| OR | | | | |
| 9. | a) What do you mean by Dynamic memory allocation? Explain with example. | [5M] | 4 | 2 |

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|--------|----|--|------|---|---|
| | b) | Write a C program to print string using Pointers. | [5M] | 4 | 3 |
| UNIT-V | | | | | |
| 10. | a) | Structure Vs Union. | [5M] | 5 | 2 |
| | b) | Write a program which opens a file in write mode. | [5M] | 5 | 3 |
| OR | | | | | |
| 11. | a) | Illustrate array of structures with example C Program explain with example | [5M] | 5 | 3 |
| | b) | Discuss about Random access functions. | [5M] | 5 | 2 |
