



JAIN COLLEGE

463/465, 18th Main Road, SS Royal, 80 Feet Road
Rajarajeshwari Nagar, Bangalore - 560 098

SUBJECT: COMPUTER SCIENCE

**I PUC
MOCK - I**

Timings Allowed: 3 Hrs 15 Minutes

Total Marks: 70

- Instructions:**
- Questions paper contains four parts.
 - Part A all questions are compulsory
 - Part B and Part C only five question to be answered.
 - Part C only five questions to be answered.
 - Write the question number properly.

PART A

I. Answer all questions

10 X 1 = 10

- Who is called as computer father of computer?
- Expand OMR.
- What is Modularity?
- 1p is a valid identifier. True/False?
- What is setw?
- Why jumping statements are used?
- What is the subscript of the first element of the array?
- Give one reason for using a function.
- What is mail merge?
- Expand ESS.

PART B

II. Answer any five of the following.

5 X 2 = 10

- What are the advantages of Email?
- Give one application for MICR and OCR.
- What is operating system? Give 2 examples.
- Write an algorithm to find biggest of 2 numbers.
- What is abstraction and encapsulation?
- What is a variable? How to initialize it.
- What is the difference between local and global variable?
- What are header and footers?

PART C

III. Answer any five of the following.

5 X 3= 15

- 19. Explain working of Hard disk.
- 20. Convert $101011.110_{(2)}$ to octal and hexa decimal.
- 21. List the features of DOS operating system.
- 22. Mention the characteristics of a good program.
- 23. Explain types of constants.
- 24. Explain cascading of operators.
- 25. Explain 2D array initialization with an example.
- 26. Explain nested structure with an example.

PART D

IV. Answer any seven of the following.

7 X 5 = 35

- 27. Explain how computers are classified based on their size.
- 28. Using 1's and 2's complement method, solve $63_{(10)} - 36_{(10)}$.
- 29. Explain Top down approach.
- 30. Explain logical and relational operators with example.
- 31. Explain the difference between while and do while loop.
- 32. Write a program find sum of each digit of a number.
- 33. Write a program to find the position of an element in an array.
- 34. Explain 'function with argument and no return value'.
- 35. What is chart? Explain its types.
- 36. Using ESS, analyze the result for the following data and represent with the help of a bar graph.

YEAR	2005	2006	2007	2008
PERCENTAGE	68	89	78	92

- 37. Design a web page to display your college details on a web page using minimum five tags.
