

Hall Ticket Number:

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Code No.: 21409 S

**VASAVI COLLEGE OF ENGINEERING (Autonomous), HYDERABAD**  
**B.E. II Year (Mech. Engg.) I-Semester (Supplementary) Examinations, May/June-2016**

**Finishing School-I : Technical Skills**

Time: 1½ hours

Max. Marks: 35

*Note: Answer ALL questions in Part-A and any FIVE from Part-B*

**Part-A (5 X 2=10 Marks)**

1. Differentiate character constant and string constant.
2. Write for loop syntax.
3. List some of the pre-defined functions.
4. What is the difference between while loop and do-while loop?
5. 

```
int a = {10,20,30,40,50,60};  
printf("%d", *(a+2));
```

  
output of the code is-----

**Part-B (5 × 5 = 25 Marks)**

6. a) Write down the truth table of **logical OR** operator. [2]  
b) Write a C program to find  $n_{Pr}$  value when n and p values are entered as input. [3]
7. a) Write syntax of conditional operator. [2]  
b) Write a C program to check whether the given number is Armstrong number or not. (Ex: 371 where  $3^3+7^3+1^3=371$ ) [3]
8. a) What is the syntax to define one dimensional array? [1]  
b) Write a C program to add two matrices. [4]
9. a) Explain about register storage class in C language. [2]  
b) Write a C program to check whether the given string is palindrome or not using string handling functions. (Ex. Madam, rotator etc.) [3]
10. a) List the types of pointers. [2]  
b) Write a C program to implement any one sorting technique to arrange the data stored in one dimensional array in ascending order. [3]
11. a) Write syntax of #define and its advantage. [2]  
b) Write a C program to print address labels of an employee. [3]
12. Answer any **two** of the following: [5]
  - a) Write a C program to find the biggest number between three numbers.
  - b) Write a C program to swap two numbers using functions.
  - c) What are the differences between structure and union?