

Roll No. _____

25/1657

- (iii) What is string? How can we declare and initialize a string variable.
 (iv) Mention any 5 keywords
 (v) Explain Switch Statement.

Section-B**(Short Answer Type Questions)**

Note : Attempt any **5 (five)** questions out of total **8 (eight)** questions. Each question carries **5 (five)** marks and answer of each question should not exceed 100 words. $5 \times 5 = 25$

2. (i) What are the characteristics of two dimensional array.
 (ii) Explain Jumping Statements discuss each in detail.
 (iii) Explain the different types of loops in C with syntax.
 (iv) Write a c-program using function to check whether the given number is prime or not.

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Time : Two Hours / Maximum Marks : 75

Note : Attempt **all** sections as per instructions.

Section-A**(Very Short Answer Type Questions)**

Note : Attempt all **5 (five)** questions. Each question carries **2(two)** marks and the answer of each question should not exceed 50 words. $5 \times 2 = 10$

1. (i) Define size of operator.
 (ii) Mention the difference between a Union and a structure.

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- (v) What is structure? Explain C syntax of structure declaration with example.
 - (vi) Explain different categories of pre-processor directives used in c.
 - (vii) Mention the difference between "Call by value" and "Call by reference" by writing a C program.
 - (viii) Write a program in C language to compute multiplication of two matrix.

Section-C

(Long Answer Type Questions)

Note : Attempt any **2 (two)** out of **4 (four)** questions. Each question carries **20 (twenty)** marks and the answer of each question should not exceed 400 words.

$$2 \times 20 = 40$$

3. (i) What is the difference between a structure variable and a union variable?
What are the difference between structure and array.

- (ii) Write C program to implement the following library function in C.

(a) Strcpy (b) Strcat

(iii) What is dynamic memory allocation? Mention the limitation of static memory allocation also. Explain malloc() and calloc() function.

(iv) Explain different types of files in file handling. and what are the different modes to open a file? Give your answer with suitable example