

Roll No.: 6144982

Subject : 29715

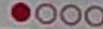
PART - A



# University of Mumbai

(Read the Instructions given on the reverse side)  
Use Blue/Black Ball Pen only to darken the appropriate circles. Do not fold, tear, wrinkle, staple or use whitener on the cover page of the answer book. Do not write or mark on the barcode and the timing tracks.

CORRECT METHOD



WRONG METHOD



BCNO 243895379



Do not write/Mark on Bar Code

## Supplement Booklet Information

Supplement Taken	Write the Supplement Barcode No.
<input type="radio"/> Y <input type="radio"/> N	
If Yes, How Many Booklets	
<input type="radio"/> 1 <input type="radio"/> 2 <input type="radio"/> 3 <input type="radio"/> 4	

Confirm and Sign by Block Supervisor

University of Mumbai



Exam Date	27 06 2023	
Program Name	FE C Scheme Sem II Exam	
Program Code	Year	Semester
1 T 0 1 8 3 2	F E	0 0 0 2
Subject Name	C Programming	
Subject Code	- 2 9 7 1 5	
PRN	2 0 2 2 0 1 6 4 0 2 0 8 0 1 2 5	
Candidate Seat No.	- 6 1 4 4 9 8 2	

College Seal

Q.P. Code



-	-	3	3	5	0	6
0	0	0	0	0	0	0
1	1	1	1	1	1	1
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
7	7	7	7	7	7	7
8	8	8	8	8	8	8
9	9	9	9	9	9	9

Medium of Answer

Subject Code (printed on Hall Ticket)

Candidate Seat Number

1. English ☒

2. Marathi ☐

3. Other ☐

2	9	7	1	5
0	0	0	0	0
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9

-	6	1	4	4	9	8	2
0	0	0	0	0	0	0	0
1	1	1	1	1	1	1	1
2	2	2	2	2	2	2	2
3	3	3	3	3	3	3	3
4	4	4	4	4	4	4	4
5	5	5	5	5	5	5	5
6	6	6	6	6	6	6	6
7	7	7	7	7	7	7	7
8	8	8	8	8	8	8	8
9	9	9	9	9	9	9	9

Signature of Candidate

*Rishal*

Date

27-06-2023

Signature & Name of the Block Supervisor with Date

*27/06/23*

Signature of Chief Coordinator

*27/06/23*

Part - B

BCNO 243895379



Do not write/Mark on Bar Code

## Question wise marks given by Examiner

Q. No.	Marks	8	9
1			
2			
3			
4			
5			
6			
7			
Total			

Name and Signature of Examiner with Date

Exam Date

Program Code & Name

Subject Code & Name

Year / Semester

If Physically challenged : LD ☐ PC ☐ VI ☐ Regular ☐

## Question wise marks given by Moderator

Q. No.	Marks	8	9
1			
2			
3			
4			
5			
6			
7			
Total			

Name and Signature of Moderator with Date



### INSTRUCTIONS TO CANDIDATES

1. Candidates should occupy the correct seats and write correct seats number and other details in the space provided for the purpose on the answer-books.
2. Candidates who are not in their seats by the time notified, will not as a rule be permitted to appear for the examination. The Senior Supervisor may at his/her discretion admit those who give him/her a satisfactory reason.
3. Each answer-book contains forty pages. Check whether the pages are properly numbered.
4. Candidates should write their answers in legible handwriting. They are warned that zero marks may be assigned to answers which cannot be assessed by the examiners owing to illegible handwriting.
5. Write on both sides of a page. Rough work where necessary, should be done on the last page in the space provided. No page should be left blank. Any such act shall be treated as unfair means.
6. Do not write anything in the Examiner & Moderator sheet (Part-B) & Re-Evaluator Sheet except Candidate details.
7. Do not damage or make any stray marks on the barcodes.
8. Candidates will not be permitted to leave the examination hall until half an hour after the question paper is distributed.
9. All answer-books supplied shall be returned whether written or blank. Nothing shall be written on the question paper.
10. No sheet shall be torn from the provided answer-books nor shall additional papers attached to them.
11. Even if it is mentioned in question paper to write each section in separate answer book, if any paper / subject have multiple sections, the candidate has to write all sections in one and the same answer book.
12. A warning bell will be given ten minutes before the close of the examination. Candidates will not be allowed to leave the examination hall during the last ten minutes. At the final bell, they must stop writing and be ready to hand over their answer books to the Junior Supervisor. They should not leave their seats until answer-books from all candidates are collected by the Junior Supervisor.

### UNFAIR MEANS IN THE EXAMINATIONS

13. Candidates shall write the answers only with BLUE/BLACK Ink Ball pen only. Use of any other Pen like Gel Ink or Fountain ink or any other colour ink, will be treated as unfair means in terms of revealing of identity.
14. Candidates are forbidden to (i) bring any book, notes, scribbling papers, pages, Mobile phones/smart watches or any other similar devices. (ii) speak or communicate in any manner to any other candidate, while the examination is in progress, and (iii) take with them any answer-book written or blank while leaving the examination hall. The supervisors/authorized persons are authorized to check the students.
15. A candidate who disobeys any instructions issued by the Senior/ Junior Supervisor or who is guilty of rude or disobedient behavior is liable for disciplinary action to be taken against him / her by the University as per O-5050
16. Do not fold the answer book anywhere because it will be treated as unfair means in terms of revealing of identity.
17. Candidates suspected to be guilty of any of the aforesaid acts will be allowed to write their paper only after giving an undertaking in writing that the decision of the University in respect of the reported act of unfair means is binding on them/Exchange of writing materials, stencils, mathematical instruments, etc. is strictly prohibited. If candidates want anything, they should approach the Junior Supervisor without disturbing other candidates. However, they should not leave their seats on any account.
18. Any method to bribe the examiner/s by attaching currency notes or letters is strictly prohibited and will result in serious action being taken by the University
19. Seat number should be written only the space provided for the same. Candidate should not write his/her name in any part of the answer-book. **Writing Name, Seat No., Phone/Cell No., putting signature, use of religious invocation or any writing that is not relevant to the answers anywhere in the answer-book will be treated as attempts to reveal identity.**
20. Underlining of answers for focusing attention is permitted. However, use of varied inks, except for illustrations and figures must be avoided. DO NOT use symbol like encircling the question or using colour arrows for P.T.O. These will all be considered as attempt to readily identify the specific answer-book & will be treated as unfair means.
21. Candidates are requested to go through the provisions of O-5050 for preventing malpractices at University.

**IT IS PRESUMED THAT CANDIDATE HAS READ ALL THE ABOVE INSTRUCTIONS.**





START WRITING HERE

Space for Marks	Question No.	
	D	
	a)	<p><code>strlen()</code> :- <code>strlen()</code> is a pre-defined function in <code>string.h</code> library. <code>strlen()</code> takes the string and calculate the length of the null character (<code>'\0'</code>) i.e it does not count null character.</p> <p>for eg: for a string "subject" ; <del>strlen</del> <code>strlen</code> will give output as 7</p>
	b)	<p><code>strcmp()</code> :- <code>strcmp()</code> is a pre-defined function in <code>string.h</code> library. <code>strcmp()</code> takes two string and compare them. for eg. <code>strcmp</code></p> <p>if <code>strcmp()</code> is equal to zero, both the string are equal</p> <p>if <code>strcmp()</code> <math>&gt; 0</math> ; then string 1 is greater than string 2 [<code>strcmp(string1, string2)</code>]</p> <p>if <code>strcmp()</code> <math>&lt; 0</math> ; then string 1 is smaller than string 2 [<code>strcmp(string1, string2)</code>]</p>



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Subject : 29715



START WRITING HERE

Space  
for  
Marks

Question  
No.

```
printf("The greatest number is '%d'", greatest);
```

```
return 0;
```

```
}
```

Here, if  $a > b$  is true, greatest will be a  
else greatest will be b if  $a > b$  is  
false.

then

if  $\text{greatest} > c$  is true, greatest will be  
b

else if  $\text{greatest} > c$  is false, greatest will  
be c.





START WRITING HERE

Space for Marks	Question No.
-----------------------	-----------------

Q4

A. Different type of data type modifiers are:-

i) short :- i) It is used with <sup>Integer data</sup> ~~Integer~~ type  
ii) short takes less memory than their regular counterpart  
iii) short stores less value than their regular counterpart.

- ii) long :- i) It is used with Integer data type
- ii) long takes more memory than their regular counterpart.
- iii) long may stores more amount of variables than their regular counterpart.

- ii) ~~a~~ long long :- i) It is used with Integer data type.
- ii) long long takes more memory than long data type modifiers.
- iii) It can also hold more amount of variable than long data type modifiers.



START WRITING HERE

Space for Marks	Question No.
-----------------------	-----------------

Output:-

Enter the number : 23

Entered number is prime.





START WRITING HERE

Space for Marks	Question No.

Output:

Enter the number : 2

Enter power : 3

2 raised to power of 3 is 8.





START WRITING HERE

Space for Marks	Question No.	START WRITING
	Q6.	
	A	<pre>#include &lt;stdio.h&gt;  int main() {     int ar, ac;     // To get number of rows and column.     printf("Enter the number of rows:");     scanf("%d", &amp;ar);     printf("Enter the number of column:");     scanf("%d", &amp;ac);      int matrix[50][50], r, c;      // To input // square matrix condition     if (ar == ac)     {         printf("Enter valid matrix");     }     else     {         // to input matrix row by row         for (r=0; r&lt;ar; r++)         {             printf("Enter row %d", r+1);             for (c=0; c&lt;ac; c++)             {                 scanf("%d", &amp;matrix[r][c]);             }         }     } }</pre>





START WRITING HERE

Space for Marks	Question No.

Output

Enter the number of rows: 3

Enter the number of column: 3

Row 1:

1

2

3

Row 2:

1

2

3

Row 3:

1

2

3

Matrix is:

1 1 1

2 2 2

3 3 3

Transpose matrix is

1 2 3

1 2 3

1 2 3.



Space  
for  
MarksQuestion  
No.

START WRITING HERE

13

#include &lt;stdio.h&gt;

~~int main~~

struct Employee

{

int EmployeeNo;

char EmployeeName[50];

int Experience;

int Salary;

};

int main()

{

struct Employee e[100];

int i; // To input or store details

for(i=0; i&lt;100; i++)

{

printf("\n Employee - No: ");

scanf("%d", &amp;e[i].EmployeeNo);

printf("\n Employee - Name: ");

scanf("%s", e[i].EmployeeName);

printf("\n Employee Experience: ");

scanf("%d", &amp;e[i].Experience);

printf("\n Salary: ");

scanf("%d", &amp;e[i].Salary);

}



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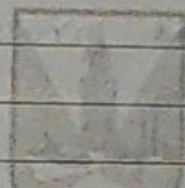
START WRITING HERE

Space  
for  
Marks

Question  
No.

3  
return a;

4





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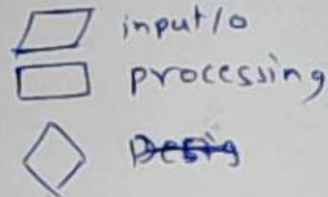
# Rough Work

Start.  
Enter  
take number

rem = number % 10;  
sum = sum + rem;  
number = number / 10;

print sum;

end. stop.



$$\begin{cases} b^2 > 4ac \\ b^2 = 4ac \\ b^2 < 4ac \end{cases}$$

$$-\frac{b^2 \pm \sqrt{b^2 - 4ac}}{2a}$$

$$-(ab \times b) \quad (\alpha \times 2a) + b =$$

$$-(\text{pow}(b, 2) +$$

Do not write below this line

Cut Here

Do not write/Mark on Bar Code

BCNO 243895379



## Re-Evaluator Sheet

Exam Date \_\_\_\_\_

Program Code & Name \_\_\_\_\_

Subject Code & Name \_\_\_\_\_

Year / Semester \_\_\_\_\_

Question wise Marks given by Re-Evaluator			
Q. No.	Marks		
1		8	
2		9	
3		10	
4		11	
5		12	
6		13	
7		14	
		Total	

Name & Signature of Re-Evaluator with Date

Sr. No. 232842197



**Program : Bachelor of Technology**  
**Seat No. : 6144982**  
**Subject : 29715**

Q.No	Marks											
	Main	A	B	C	D	E	F	G	H	I	J	Tot
1		NA	5	2*	4	5						14
2		2	5	5								12
3		NA	NA	NA								0
4		4	0	3								7*
5		2	5	3								10
6		3	9									12
Grand Total												48