

## Xavier Institute of Engineering Mahim, Mumbai 400016

## **Department of Information Technology**

(Affiliated to University of Mumbai)

Subject Code:	Subject Name:	Semester:	Faculty In-charge:
FEC205	C Programming	02	Prof. Omprakash Yadav
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Question Bank: Internal Assessment Test - 1 Date: 15/05/2021.

Q No.	CO/LO	BL	PI	Module	Question	Marks
Follo	wing que	estion	s are	1M ea	ch	<u>'</u>
Q1. A	FEC205.1	BL1		01	Arrange the following operators in terms of their precedence (high to low)	01
					Comma, logical, unary, bitwise, relational, arithmetic	
Q1.B	FEC205.1	BL1		01	Size of float data type is remember	01
Q1.C	FEC205.1	BL4, BL5		01	char a='A'' printf("%c %d",a,a); Find the Output of this statement	01
Q1.D	FEC205.1	BL4, BL5		01	b=1; b=++b+b++; printf("%d",b); Find the Output of this statement	01
Q1.E	FEC205.1	BL4, BL5		01	5+8%3*4 = 2/1*3+2 Find the output of the above expression.	01
Q1.F	FEC205.1	BL1		01	Give the range of unsigned character	01
Q1.G	FEC205.1	BL4		01	x=28; y=25; Find x & y	01
Q1.H	FEC205.1	BL1		01	If two or more operators of same precedence are present in any expression then the execution of operators depends on	01
Q1.I	FEC205.1	BL1		01	Tell the associativity of Assignment and Relational operators.	01
Q1.J	FEC205.1	BL1		01	Find valid identifiers from below list: jay#, FLOAT,422,FE-XIE, 2015spandan	01
Q1.K	FEC205.1	BL2		01	Identify the following decimal integer constant are valid or invalid 2.5, 3#5, 98 5, 0925, 8, 354, 3705, 23759, 33679	01
Q1.L	FEC205.1	BL2		01	Identify the valid octal integer constant 0, 01777, 345, 03458	01
Q1.M	FEC205.1	BL2		01	Identify the valid hexadecimal integer constant 0x, 0x723, 0x7AB, 345, A3FE	01

Find the output of the following code snippet.

Q2.A	FEC205.1	BL4,	01	void main( )	01
		BL5		{ int a=10,b=3,max; a>b?max=a:max=b; printf("%d",max); }	
Q2.B	FEC205.1	BL4, BL5	01	<pre>void main() {   int a,b,c,sum;   sum=(a= 8,b= 6,c= 4,sum = a+ b+ c);   printf("%d",sum); }</pre>	01
Q2.C	FEC205.1	BL4, BL5	01	<pre>void main() {   int i=0,j=1;   printf("%d\n", i &amp;&amp; j++);   printf("%d %d\n", i , j);   printf("%d\n", ++ i    j++);   printf("%d %d\n", i, j); }</pre>	01
Q2.D	FEC205.1	BL4, BL5	01	<pre>void main() {   printf("%6s\n", "Saturday");   printf("%15s\n", "Saturday");   printf("% .5s\n", "Saturday");   printf("%10.5s\n", "Saturday");   printf("% 2.5s\n", "Saturday"); }</pre>	01
Q2.E	FEC205.1	BL4, BL5	01	void main() { int a=5,b=5;     printf("%d,%d\t", ++a, b);     printf("%d,%d\t", a, b);     printf("%d,%d\t", ++a, b++);     printf("%d,%d\t", a, b); }	01
Q2.F	FEC205.1	BL4, BL5	01	<pre>void main() { float var;   printf("size of int=%d\n", sizeof(int));   printf("size of float=%d\n", sizeof(float));   printf("size of var=%d\n", sizeof(var));   printf("size of integer constant=%d\n", sizeof(100)); }</pre>	01
Q2.G	FEC205.1	BL4, BL5	01	<pre>void main() {   int a=-3;   a=-a-a+!a;   printf("%d\n",a); }</pre>	01
Q2.H	FEC205.1	BL4, BL5	01	<pre>void main() {   int x,y,z,k=10;   k+=(x=5,y=x+2,z=x+y);   printf("x=%d,y=%d,z=%d,k=%d",x,y,z,k); }</pre>	01
Q2.I	FEC205.1	BL4, BL5	01	void main() {	01

					printf(") disp\h is grant").	
Q2.J         FEC205.1         BL4, BL5         01         void main() { int a=15; printf("a=%d\t a=%o\t a=%x\n",a,a,a); } }         01           Q2.K         FEC205.1         BL4, BL5         01         void main() { float a1,b1,a2,b2,a3,b3; a1=8; b1=6.8; a2=4.2; b2=3.57; a3=9.82; b3=85.673; printf("%5.1f, %6.2f\n",a3,b3); printf("%5.1f, %6.2f\n",a3,b3); printf("%5.1f, %6.2f\n",a3,b3); printf("%7.1f, %8.2f\n",a3,b3); printf("%7.1f, %8.2f\n",a3,b3); printf("%7.1f, %8.2f\n",a3,b3); printf("%5.1f, %6.2f\n",a3,b3); printf("%5.1f, %6.2f\n",a3,b3; printf("%5.1f, %6.2f\n",a3,b3; printf("%5.1f, %6.2f\n",a3,b3; printf("%5.1f, %6.2f\n",a3,b3; printf("%5.1f, %6.2f\n",a3,b3; printf("%5.1f, %6.2f\n",a3,b					printf("Indian\b is great");	
Q2.K   FEC205.1   BL4,   01   void main()   (   float a1,b1,a2,b2,a3,b3; a1=8; b1=6.8; a2=4.2; b2=3.57; a3=9.82; b3=85.673; printf("%5.1f, %6.2f\n",a2,b2);	02.1	FFC20F 1	DI 4	01		01
Int a=15;	QZ.J	FEC205.1		01		01
Printf("a=%d\t a=%o\t a=%x\n",a,a,a);			BL3		int 2-15.	
Q2.K FEC205.1 BL4, BL5					1	
Record   R						
Record   R	O2 K	FFC205 1	RI 4	01	void main( )	01
FEC205.1   BL4   O1   FEC205.1   BL5   O1   Explain different datatypes in C.   O5	Q	12020311	1 1	02	{	01
a1=8; b1=6.8; a2=4.2; b2=3.57; a3=9.82; b3=85.673; printf("%3.1f, %4.2f\n",a1,b1); printf("%5.1f, %6.2f\n",a2,b2); printf("%5.1f, %6.2f\n",a3,b3); }   Q2.L   FEC205.1   BL4, BL5   O1   Find out various errors in following void main() { int x,y,z; x=8++; y=++x++; z=(x+y)-; printf("x=%d,y=%d,z=%d",x,y,z); }   Q2.M   FEC205.1   BL4, BL5   O1   Point out errors, if any in following C-statements   O1   1 int = 314.652*150; 2) name = 'Ajay'; 3) varchar = '3'; 4) 3.14**r***h = vol_of_cvl; 5) k= (a*b) (c + (2.5a +b) (d + e); 6) m_inst = rate of interest * amount in rs;   O3   FEC205.1   BL2   O1   Give the difference between identifier and keyword.   O5   FEC205.2   BL6   O1   Implement an algorithm and flowchart to swap values of two variables without using temporary variables.   Q6   FEC205.2   BL6   O1   Implement an algorithm and flowchart to find the greatest of three integers given by the user.   Q7.   FEC205.2   BL6   O1   Implement a C program to swap values of two variables without using temporary variables.   Q8   FEC205.2   BL6   O2   Implement a C program to find the reverse of a two   O5   Variables without using temporary variables.   Q8   FEC205.2   BL6   O2   Implement a C program to find the reverse of a two   O5   Variables without using temporary variables.   Q8   FEC205.2   BL6   O2   Implement a C program to find the reverse of a two   O5   Variables without using temporary variables.   Q8   FEC205.2   BL6   O2   Implement a C program to find the reverse of a two   O5   Variables without using temporary variables.   O5   Variables withou					float a1.b1.a2.b2.a3.b3:	
b1=6.8; a2=4.2; b2=3.57; a3=9.82; b3=85.673; printf("%5.1f, %4.2f\n",a1,b1); printf("%5.1f, %6.2f\n",a2,b2); printf("%5.1f, %6.2f\n",a3,b3); }   Q2.L   FEC205.1   BL4, BL5   O1   Find out various errors in following void main() { (int x,y,z; x=8++; y=+x±+; z=(x+y); printf("x=%d,y=%d,z=%d",x,y,z); } printf("x=%d,y=%d,z=%d",x,y,z); }   Q2.M   FEC205.1   BL4, BL5   O1   Point out errors, if any in following C-statements   O1   1) int = 314.652*150;   2) name = 'Ajay';   3) varchar = '3';   4) 3.14******* = vol_of_cyl;   5) k= (a*b) (c+ (2.5a +b) (d + e);   6) m_inst = rate of interest * amount in rs;   Q3   FEC205.1   BL2   O1   Explain different datatypes in C.   O5   Q4   FEC205.1   BL2   O1   Give the difference between identifier and keyword.   O5   Q5   FEC205.2   BL6   O1   Implement an algorithm and flowchart to swap values of two variables without using temporary variables.   Q6   FEC205.2   BL6   O1   Implement an algorithm and flowchart to find the greatest of three integers given by the user.   Q7.   FEC205.2   BL6   O1   Implement a C program to swap values of two variables without using temporary variables.   Q8   FEC205.2   BL6   O2   Implement a C program to find the reverse of a two   O5   Implement a C program to find the reverse of a two   O5   Implement a C program to find the reverse of a two   O5   Implement a C program to find the reverse of a two   O5   Implement a C program to find the reverse of a two   O5   Implement a C program to find the reverse of a two   O5   Implement a C program to find the reverse of a two   O5   Implement a C program to find the reverse of a two   O5   Implement a C program to find the reverse of a two   O5   Implement a C program to find the reverse of a two   O5   Implement a C program to find the reverse of a two   O5   Implement a C program to find the reverse of a two   O5   Implement a C program to find the reverse of a two   O5   Implement a C program to find the reverse of a two   O5   Implement a C program to find the reverse of a two   O5   Implemen						
b2=3.57;   a3=9.82;   b3=85.673;   printf("%3.1f, %4.2f\n",a1,b1);   printf("%5.1f, %6.2f\n",a2,b2);   printf("%7.1f, %8.2f\n",a3,b3);   }     Q2.L   FEC205.1   BL4,   BL5     Find out various errors in following   O1   void main()   (int x,y,z;   x=8++;   y=+x++;   z=(x+y)-;   printf("x=%d,y=%d,z=%d",x,y,z);   Point out errors, if any in following C-statements   O1   1) int = 314.652*150;   2) name = 'Ajay';   3) varchar = '3';   4) 3.14***r*h = vol_of_cyl;   5) k= (a*b) (c+ (2.5a+b) (d+e);   6) m_inst = rate of interest * amount in rs;   Costatements   O5   FEC205.1   BL2   O1   Explain different datatypes in C.   O5   Costatements   O5   O5   O5   O5   O5   O5   O5   O					b1=6.8;	
A3=9.82;   b3=85.673;   printf("%3.1f, %4.2f\n",a1,b1);   printf("%5.1f, %6.2f\n",a2,b2);   printf("%5.1f, %8.2f\n",a3,b3);   }   O2.L   FEC205.1   BL4,   BL5					a2=4.2;	
b3=85.673;   printf("%3.1f, %4.2f\n",a1,b1);   printf("%5.1f, %6.2f\n",a2,b2);   printf("%7.1f, %8.2f\n",a3,b3);   }     Q2.L   FEC205.1   BL4,   BL5     Find out various errors in following   void main()   { int x,y,z;   x=8++;   y=+x++;   z=(x+y)-;   printf("x=%d,y=%d,z=%d",x,y,z);   }     Q2.M   FEC205.1   BL4,   BL5     O1   Point out errors, if any in following C-statements   O1   1   int = 314.652*150;   2   name = 'Ajay';   3   varchar = '3';   4   3.14*r*r*h = vol_of_cyl;   5   k=(a*b) (c + (2.5a +b) (d +e);   6   m_inst = rate of interest * amount in rs;   Explain different datatypes in C.   Q5   FEC205.1   BL2   O1   Give the difference between identifier and keyword.   O5   Q5   FEC205.2   BL6   O1   Implement an algorithm and flowchart to swap values   O5   of two variables without using temporary variables.   Q6   FEC205.2   BL6   O1   Implement an algorithm and flowchart to find the   greatest of three integers given by the user.   Q7   FEC205.2   BL6   O1   Implement an algorithm and flowchart to find the   greatest of three integers given by the user.   Q8   FEC205.2   BL6   O2   Implement a C program to swap values of two   Variables without using temporary variables.   Q8   FEC205.2   BL6   O2   Implement a C program to find the reverse of a two   O5   O5   O5   O5   O5   O5   O5   O					b2=3.57;	
printf("%3.1f, %4.2f\n",a1,b1);   printf("%5.1f, %6.2f\n",a2,b2);   printf("%7.1f, %8.2f\n",a3,b3);   }     Q2.L   FEC205.1   BL4,   BL5					a3=9.82;	
Description of two variables without using temporary variables.   Description of the variables without using temporary variables.					·	
Description						
Q2.L FEC205.1 BL4, BL5						
Void main()					printf("%7.1f, %8.2f\n",a3,b3);	
Void main()					}	
Section   Sect	Q2.L	FEC205.1	1 1	01	_	01
X=8++;   Y=+x++;   Z=(x+y);   printf("x=%d,y=%d,z=%d",x,y,z);}			BL5			
Q2.M       FEC205.1       BL4, BL5       01       Point out errors, if any in following C-statements of interest shapping in the statements of interest shapping in the statements of interest shapping interest shapping in the statements of interest shapping interest sha						
Z=(x+y)-; printf("x=%d,y=%d,z=%d",x,y,z);}  Q2.M FEC205.1 BL4, BL5  O1 Point out errors, if any in following C-statements  1) int = 314.652*150; 2) name = 'Ajay'; 3) varchar = '3'; 4) 3.14*r*r*h = vol_of_cyl; 5) k= (a*b) (c + (2.5a +b) (d + e); 6) m_inst = rate of interest * amount in rs;  Q3 FEC205.1 BL2  O1 Explain different datatypes in C.  O5  Q4 FEC205.2 BL6  O1 Implement an algorithm and flowchart to swap values of two variables without using temporary variables.  Q6 FEC205.2 BL6  O1 Implement an algorithm and flowchart to find the greatest of three integers given by the user.  Q7. FEC205.2 BL6  O1 Implement a C program to swap values of two variables without using temporary variables.  Q8 FEC205.2 BL6  O2 Implement a C program to find the reverse of a two						
Printf("x=%d,y=%d,z=%d",x,y,z);}  Q2.M FEC205.1 BL4, 01 Point out errors, if any in following C-statements 01  1) int = 314.652*150; 2) name = 'Ajay'; 3) varchar = '3'; 4) 3.14*r*r*h = vol_of_cyl; 5) k= (a*b) (c + (2.5a +b) (d +e); 6) m_inst = rate of interest * amount in rs;  Q3 FEC205.1 BL2 01 Explain different datatypes in C. 05  Q4 FEC205.1 BL2 01 Give the difference between identifier and keyword. 05  Q5 FEC205.2 BL6 01 Implement an algorithm and flowchart to swap values of two variables without using temporary variables.  Q6 FEC205.2 BL6 01 Implement an algorithm and flowchart to find the greatest of three integers given by the user.  Q7. FEC205.2 BL6 01 Implement a C program to swap values of two variables without using temporary variables.  Q8 FEC205.2 BL6 02 Implement a C program to find the reverse of a two 05						
Q2.M FEC205.1 BL4, BL5						
BL5  1) int = 314.652*150; 2) name = 'Ajay'; 3) varchar = '3'; 4) 3.14*r*r*h = vol_of_cyl; 5) k= (a*b) (c + (2.5a +b) (d + e); 6) m_inst = rate of interest * amount in rs;  Q3 FEC205.1 BL2  01 Explain different datatypes in C.  05  Q4 FEC205.2 BL6  01 Implement an algorithm and flowchart to swap values of two variables without using temporary variables.  Q6 FEC205.2 BL6  01 Implement an algorithm and flowchart to find the greatest of three integers given by the user.  Q7. FEC205.2 BL6  01 Implement a C program to swap values of two variables without using temporary variables.  Q8 FEC205.2 BL6  01 Implement a C program to swap values of two variables without using temporary variables.	O2 M	FFC205.1	RI /I	01		01
2) name = 'Ajay'; 3) varchar = '3'; 4) 3.14*r*r*h = vol_of_cyl; 5) k= (a*b) (c + (2.5a +b) (d + e); 6) m_inst = rate of interest * amount in rs;  Q3 FEC205.1 BL2 01 Explain different datatypes in C. 05  Q4 FEC205.1 BL2 01 Give the difference between identifier and keyword. 05  Q5 FEC205.2 BL6 01 Implement an algorithm and flowchart to swap values of two variables without using temporary variables.  Q6 FEC205.2 BL6 01 Implement an algorithm and flowchart to find the greatest of three integers given by the user.  Q7. FEC205.2 BL6 01 Implement a C program to swap values of two variables without using temporary variables.  Q8 FEC205.2 BL6 02 Implement a C program to find the reverse of a two 05	QZ.IVI	1 1 1 2 2 3 3 1	1 1	01	, ,	01
3) varchar = '3'; 4) 3.14*r*r*h = vol_of_cyl; 5) k= (a*b) (c + (2.5a +b) (d + e); 6) m_inst = rate of interest * amount in rs;  Q3 FEC205.1 BL2 01 Explain different datatypes in C. 05  Q4 FEC205.1 BL2 01 Give the difference between identifier and keyword. 05  Q5 FEC205.2 BL6 01 Implement an algorithm and flowchart to swap values of two variables without using temporary variables.  Q6 FEC205.2 BL6 01 Implement an algorithm and flowchart to find the greatest of three integers given by the user.  Q7. FEC205.2 BL6 01 Implement a C program to swap values of two variables without using temporary variables.  Q8 FEC205.2 BL6 02 Implement a C program to find the reverse of a two 05						
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G) m_inst = rate of interest * amount in rs;  Q3 FEC205.1 BL2 01 Explain different datatypes in C. 05  Q4 FEC205.1 BL2 01 Give the difference between identifier and keyword. 05  Q5 FEC205.2 BL6 01 Implement an algorithm and flowchart to swap values of two variables without using temporary variables.  Q6 FEC205.2 BL6 01 Implement an algorithm and flowchart to find the greatest of three integers given by the user.  Q7. FEC205.2 BL6 01 Implement a C program to swap values of two variables without using temporary variables.  Q8 FEC205.2 BL6 02 Implement a C program to find the reverse of a two 05						
Q4 FEC205.1 BL2 01 Give the difference between identifier and keyword. 05  Q5 FEC205.2 BL6 01 Implement an algorithm and flowchart to swap values of two variables without using temporary variables.  Q6 FEC205.2 BL6 01 Implement an algorithm and flowchart to find the greatest of three integers given by the user.  Q7. FEC205.2 BL6 01 Implement a C program to swap values of two variables without using temporary variables.  Q8 FEC205.2 BL6 02 Implement a C program to find the reverse of a two 05					6) m_inst = rate of interest * amount in rs;	
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Q5 FEC205.2 BL6 01 Implement an algorithm and flowchart to swap values of two variables without using temporary variables.  Q6 FEC205.2 BL6 01 Implement an algorithm and flowchart to find the greatest of three integers given by the user.  Q7. FEC205.2 BL6 01 Implement a C program to swap values of two variables without using temporary variables.  Q8 FEC205.2 BL6 02 Implement a C program to find the reverse of a two 05		FEC20E 1	DI 2	01	Cive the difference between identifier and knowled	OF
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Q6FEC205.2BL601Implement an algorithm and flowchart to find the greatest of three integers given by the user.05Q7.FEC205.2BL601Implement a C program to swap values of two variables without using temporary variables.05Q8FEC205.2BL602Implement a C program to find the reverse of a two05	Q5	FEC205.2	BL6	01	Implement an algorithm and flowchart to swap values	05
greatest of three integers given by the user.  Q7. FEC205.2 BL6 01 Implement a C program to swap values of two variables without using temporary variables.  Q8 FEC205.2 BL6 02 Implement a C program to find the reverse of a two 05					of two variables without using temporary variables.	
Q7.FEC205.2BL601Implement a C program to swap values of two variables without using temporary variables.05Q8FEC205.2BL602Implement a C program to find the reverse of a two05	Q6	FEC205.2	BL6	01	, · · · · · · · · · · · · · · · · · · ·	05
variables without using temporary variables.  Q8 FEC205.2 BL6 02 Implement a C program to find the reverse of a two 05						
Q8 FEC205.2 BL6 02 Implement a C program to find the reverse of a two 05	Q7.	FEC205.2	BL6	01	, , ,	05
المالية	Q8	FEC205.2	BL6	02		05
					digit number.	
Q9 FEC205.2 BL6 02 Draw flowchart and write an algorithm to determine 05	Q9	FEC205.2	BL6	02		05
whether the year entered by the user is leap or not.		FF.000= 5	D. C			
Q10 FEC205.2 BL6 02 Draw flowchart and write an algorithm to find the 05	Q10	FEC205.2	BL6	02		05
greatest of four numbers.	011	FFC30F 3	DI C	02		05
Q11 FEC205.2 BL6 02 Implement a program that accepts two numbers, if 05	QII	FEC205.2	RFP	02	' - ' - ' - ' - ' - ' - ' - ' - ' - '	05
the first number is greater than second, then print the						
Q10FEC205.1BL2BL2BL2Sum of these numbers else print the difference.05	010	EECOOE 1	פום	01	·	ΩE
Q10   1 C203.1   BL2   01   Nules for identifiers.   05	Q10	1 LC203.1	DLZ	01	Nuies for fuelithiers.	
Q11 FEC205.1 BL2 01 Conversion from Decimal to Binary, Octal, 05	Q11	FEC205.1	BL2	01	Conversion from Decimal to Binary, Octal,	05
Hexadecimal and vice versa					Hexadecimal and vice versa	

Q12	FEC205.2	BL6	02	Write a program that converts temperature from Celsius to Fahrenheit and vice versa.	05
Q13	FEC205.2	BL6	02	Write a program that computes and display simple interest and compound interest	05
Q14	FEC205.3	BL2	02	Differentiate between while and dowhile with example.	05
Q15	FEC205.3	BL6	02	Write a program to print all the Armstrong numbers from 100 to 999.	05
Q16	FEC205.3	BL6	02	Write a program to print sin(x) series upto n.	05
Q17	FEC205.3	BL6	02	Write a program to print all the prime numbers between 1 to 100. (CO3, BL:CREATE)	05
Q18	FEC205.3	BL6	02	Write a program to convert decimal to binary number.	05
Q19	FEC205.3	BL6	02	Write a program to convert decimal to octal number.	05
Q20	FEC205.3	BL6	02	Write a program to convert binary to decimal number.	05
Q21	FEC205.3	BL6	02	Write a program to print all the factors of a number.	05
Q22	FEC205.3	BL6	02	Write a program to print the following patterns.  A 1 232 34543 4567654 567898765  B. A B A C B A D C B A E D C B A  C. 1 21A 321BA 4321CBA 54321DCBA  D. A BAB CBABC DCBABCD EDCBABCDE	05
Q23	FEC205.3	BL6	02	Write a program in C to draw Pascal's triangle.  1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	05
Q24	FEC205.3	BL6	02	Write a program to print all the combinations of 3 digit numbers.	05
Q25	FEC205.1	BL4, BL5	01	Find the output using associativity and precedence a=2, b=2 x=4*(++a*2+3); y=4*(b++*2+3);	01

x=? y=?	
a=3, b=4, c=3, d=4 x=(a=5)&&(b=7); y=(c=5)  (d=8); a=?, b=?, c=?, d=?, x=?, y=?	
x=(a==6) && (b==a); y=(c==6)  (d=10); a=?, b=?, c=?, d=?, x=?, y=?	

BL-Bloom's Taxonomy Levels (1- Remembering, 2- Understanding, 3 - Applying, 4 - Analysing, 5 - Evaluating, 6 - Creating)

## CO - Course Outcomes

PO - Program Outcomes; PI Code - Performance Indicator Code



