

PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
Sample Question Paper - 2

Semester: 1st
Subject Code: 03606103
Subject Name: Computer programming

Date: (dd/mm/yyyy)
Time: (2hr: 30min)
Total Marks: 60

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. English version is considered to be Authentic.

Q.1	Answer any Nine out of twelve. (2 Marks Each)	(18)
	1. Write definition of flowchart and algorithm.	
	2. Give properties of an algorithm.	
	3. Convert following statement into C : $9xy/p+1-1/5(a-b)^2*a^2$	
	4. List any 6 keywords	
	5. What will be the output of following: Void main() { int a=7; printf("%d\n",++a); printf("%d\n",a); getch(); }	
	6. Define Character set and identifier in C programming.	
	7. List any 4 header file in C.	
	8. State the rules for naming variable.	
	9. List all relational operator.	
	10. Write syntax of nested for loop.	
	11. Define syntax of ternary operator.	
	12. What is use of clrscr() in c program.	
Q.2	A) Give comparison between Entry control loop and Exit control loop.	(03)
	OR	
	A) Give comparison between Flowchart and algorithm.	(03)
	B) Explain type conversion in C language with types and examples.	(03)
	OR	
	B) Explain Switchcase statement with example.	(03)
	C) Draw flowchart to find maximum number out of three numbers.	(04)
	OR	
	C) Write a program to find N! value.(factorial number)	(04)
	D) Explain Logical operator with example.	(04)
	OR	
	D) Explain Bitwise operator with example.	(04)
Q.3	A) State that why these variable names are invalid: (1) 2add (2) #define PI=3.14 (3) total\$ (4) second number	(03)
	OR	
	A) Draw flowchart to check weather a given number is Even or odd.	(03)
	B) Explain If else statement with example.	(03)
	OR	
	B) Explain arithmetic operator with example.	(03)
	C) Construct a C program which print the sum of first N numbers where the N is inputted by user.(using for loop)	(04)
	OR	
	C) Develop a C program which takes input value from 1 to 7 by user and appropriate to that value the respective day of week will be shown by user.(also point that for out of 1 to 7 it should display invalid value.	(04)
	D) Write a program to develop calculator by using switch case statement.	(04)
	OR	
	D) Explain if else if ladder with example.	(04)

Q.4	A) Write an algorithm to find that student has passed the exam or not. Draw Flowchart for same.	(03)
	B) Write a program to print Fibonacci series.	(03)
	C) Develop a C program to print following pattern using nested for loop. <pre> * * * * * * * * * *</pre>	(04)
	D) Develop a C program to print following pattern using nested for loop. <pre> 1 1 2 1 2 3 1 2 3 4</pre>	(04)

