I-S-(M.Sc.-Chem)-CBCS-407-(Comp.Chem)R&B

2019

Time: As in Programme
Full Marks: 50

Answer all questions. The figures in the right-hand margin indicate marks.

(a) State the important features of C programming.
 (b) State the concept of operator precedence and associativity.
 (c) Differentiate between constant and variable. What are the different types of constants? Explain each one in brief.
 (d) Write a C program to take the radius of circle through the key board and calculate the area and perimeter of that circle.

OR

BBS_61_(3)

(Turn Over)

_	Also draw the flow chart. (Continuous Continuous Conti	
	PV = nRT	15
	Write a C program to calculate the pressure by using van der Waals equation:	
	OR	
	Also draw the flow chart.	15
	$KE = \frac{1}{2} \text{ mv}^2.$	
2.	Write a C program to calculate the Kinetic energy by using the following equation:	
	(ii) $\sqrt{(b^2-4ac)/uv}$	
	(i) $xyz - pq^2r$	
	(h) Convert the following arithmetic expression into C statement:	5
	Assume X as integer.	
	$X = 5 + 6 - 4/4 \cdot 2/2 - 1 + 4 \cdot 3 + 5 \cdot 1$ - 8/2 + 3 \cdot 5/3.	
	(g) Determine the hierarchy of operation and evaluate the expression:	5
	(f) Write a C program to enter a three digit number through the key board and display the sum of the digits.	5
	(e) What are the different types of Loop control statements? Explain each one in brief.	5

3.	(a)	Differentiate between Compiler and Assembler.	7 1 /2
	(b)	State the structure of a C program.	$7\frac{1}{2}$
		OR	
	(c)	Differentiate between Application and System software. State the features of any one System software.	$7\frac{1}{2}$
	(d)	State the features of MS Word and MS	71/2