

PBQ-0030011007 Seat No. _____

B. Sc. (Sem. I) (CBCS) Examination

November / December - 2018

CS - 101: Programming Fundamentals using C & C++

(New Course)

Time : $2\frac{1}{2}$ Hours]	[Total Marks : 70
 (a) Answer the following questions. (1) Which symbol is used for single (2) Define scope of variables. (3) POP stands for	e line comment ?
 (b) Answer the following questions: (at (1) What is comment in program? ways to write it. (2) What is formatted output? 	•
(c) Answer the following questions: (a)(1) Explain any two functions from(2) Define global variable and local	<pre>conio.h>.</pre>
 (d) Answer the following questions: (a) (1) List out and explain all details available in C. (2) Write a short note on operator 	about data types
 (a) Answer the following questions. (1) A switch case without break in is a compilation error. True or (2) loop occurs at least onc (3) A function that does not return a function. (4) Which unary operator is used of a variable by 1 ? 	False ? e. ny value is called
(b) Answer the following questions: (at (1) What is command line argume (2) List out limitations of switch of	nts ?

	(c)	Answer the following questions: (any one) (1) Write a program to generate Fibonacci series for N-Terms.	3
		(2) Differentiate entry control loop and exit control loop.	
	(d)	Answer the following questions: (any one) (1) Write a short note on UDF. (2) Explain all conditional statements.	5
3	(a)	Answer the following questions. (1) maloc() returns if it falls to allocate memory. (2) Member of structure can be accessed using operator using variable of type structure. (3) What is EOF? (4) keyword is used to allocate memory dynamically in C++.	4
	(b)	Answer the following questions: (any one) (1) Differentiate call by value and call by reference. (2) What is structure? Explain with example.	2
	(c)	Answer the following questions: (any one) (1) Differentiate union and structure. (2) Explain use of #define and # include.	3
	(d)	Answer the following questions: (any one) (1) Explain file handling functions of C language. (2) Write a short note on DMA.	5
4	(a)	Answer the following questions. (1) A pointer occupies bytes. (2) A pointer refers to an object that currently invokes a member function. (3) We can overload all the operators of C++. True or False? (4) Binary operator overloaded through a member function, the left hand operand must be of the relevant class.	4
	(b)	Answer the following questions: (any one) (1) Define compile time polymorphism. (2) Explain pointer to pointer.	2

	(c)	 Answer the following questions: (any one) (1) Write a program to create a pointer to an array of size 10, get values for array and display all values given both using pointer. (2) Differentiate pointer and reference. 	3
	(d)	Answer the following questions: (any one) (1) Explain pointer to structure with an example. (2) Explain operator overloading with an example.	5
5	(a)	Answer the following questions. (1) What is encapsulation? (2) A class can have more than one destructor. True or False? (3) A "do-nothing" function means (4) is a special member function having same as class name and it is invoked whenever an object is created.	4
	(b)	Answer the following questions: (any one) (1) Define inheritance and list out its types. (2) What is destructor?	2
	(c)	Answer the following questions: (any one) (1) Explain constructor overloading with example. (2) Explain try, catch and throw.	3
	(d)	Answer the following questions: (any one)(1) What is polymorphism? Explain with an example of pure virtual function.(2) Write a short note on friend function.	5