Board Examination, 2018

,	st Year, Second Semester Introduction to C++ programming	Full Marks : 100 Pass Marks : 40 Time : 3 hrs
	Group A (Multiple Choice Question	The state of the s
	e correct answers:	[30x1=30]
1.	Which of the following term is used for a function defined (a) Mamber Veriable (b) Mamber function (c) Class fun	
2	(a) Member Variable (b) Member function(c) Class func	etion (d) Classic function
2.	Why reference is not same as a pointer?	
	(a) A reference can never be null. (b) A reference once established cannot be abanged.	
	(b) A reference once established cannot be changed.(c) Reference doesn't need an explicit dereferencing mecha	niem
	(d) All of the above.	ilisiii.
3.	cout is a/an	
3.	(a) operator (b) function (c) object	(d) macro
4.	Which of the following approach is adapted by C++?	
	(a) Top-down (b) Bottom-up (c) Ri	ght-left (d) Left-right
5.	Which of the following operator is overloaded for object co (a) >> (b) $<<$ (c) + (d) =	out?
6.	Which of the following header file includes definition of <i>ci</i> (a) istream.h (b) iomanip.h (c) ostream.h (d) io	
7.	Which of the following statement will be correct if the functit?	
	(a) The arguments from the right side will be the defaul	t argument.
	(b) The first argument will be the default argument.	
	(c) The middle argument will be the default argument.	
	(d) All the argument will be the default argument.	
8.	Which of the following statement is correct?	
	(a) Overloaded functions can accept same number of ar	guments.
	(b) Overloaded functions always return value of same data	type.
	(c) Overloaded functions can accept only same number and	same type of arguments.
	(d) Overloaded functions can accept only different number	and different type of arguments.
9.	How many types of macros are there in c++?	
	(a) 1 (b) 2 (c) 3 (d) 4	
10.	What is this operator called ?: ?	
	(a) conditional (b) relational (c) casting operator (d) none	e of the mentioned
11.	Which operator is used to signify the namespace?	
	(a) conditional operator (b) ternary operator	
	(c) scope operator (d) none of the ment	ioned
12.	Which keyword is used to access the variable in namespace	?
	(a) using (b) dynamic (c) const	(d) static
13.	What will happen in this code?	

	int $a = 100$, $b = 200$;	,			
	int *p = &a, *q = &	zb;			
	p = q;	,			
	(a) b is assigned to a	(b) p now p	ooints to b		
	(c) a is assigned to b	(d) q now p	oints to a		
14.	Which of the follow	ing is a correct comme	ent?		
	(a) */ Comments */	(b) ** Com	ment **		
	(c) /* Comment */	(d) { Comn	nent }		
15.	Because the lifetime also called	of a local variable is lim	ited and determined a	automaticall	y, these variables are
	(a) automator	(b) automatic	(c) dynamic	(d) sta	atic
16.	Hiding the complex	ity is known as			
	(a) Abstraction	(b) Encapsulation	(c) Data	hiding	(d) Composition
17.	Which of the follow	ing can not be used as	identifiers?		
	(a) Letters (b) I	Digits (c) Underso	cores (d) Space	es	
18.	Which is correct syr	ntax ?			
	(a) myfile:open ("ex	ample.bin", ios::out);			
	(b) myfile.open ("e	xample.bin'', ios::out);		
	(c) myfile::open ("e	example.bin", ios::out)	;		
	(d) myfile.open ("ex	cample.bin", ios:out);S	paces		
19.		o create classes which			•
		le some of its "parent's	=		
	(a) Overloading	(b) Inheritance	• • • • •	norphism	(d) Encapsulation
20.		variable is initialized to			
	(a) 0	(b) 1	(c) 2	(d) -1	
21.		ing operator cannot be		(3)	
	(a) =	(b) ==	(c) +	(d) ::	
22.	A constructor is call				
	(a) an object is decl				
	(b) an object is used				
	(c) a class is declare	d			
	(d) a class is used				
23.	Operator overloadin	C			
	. ,	rators work with object			
	, , ,	ning to existing C++ op	perators		
	(c) making new C++	- operator			
. .	(d) both a and b				
24.		argument/arguments		(T) 0	
	(a) 1	(b) 2	(c) 3	(d) 0	
25.	Which function is us (a) seekp()	sed to position back from (b) seekg() (c)	om the end of the file both seekg & seekp	e object'?	(d) none of these
26.		ce allows you to do?			
	(a) create a class				
	(b) create a hierard	chy of classes			

	(c) access method	S			
	(d) None of these				
27.	How many types	of inheritance are there	in C++ ?		
	(a) 2	(b) 3	(c) 4	(d) 5	
28.	The ac	cess specifier allows fu	nctions or data to be ac	cessible to other parts of the	he
	program.				
	(a) private	(b) protected	(c) public	(d) inherited	
29.	Which header fil	e is used for reading an	d writing to a file?		
	(a) #include <iostr< td=""><td>ream></td><td></td><td></td><td></td></iostr<>	ream>			
	(b) #include <fstr< td=""><td>eam></td><td></td><td></td><td></td></fstr<>	eam>			
	(c) #include <file></file>				
	(d) None of the m	entioned			
30.		the same name as the clast class.	ass, but preceded with	a tilde character (~) is call	ed
	(a) constructor	(b) destructor	(c) functio	n (d) object	

Group B

Answer any six questions:

[6x5=30]

- 1. Explain cin and cout objects with examples. (unit I: Introduction to computers)
- 2. What is an automatic variable? Given an example. (unit I: Introduction to computers)
- 3. Explain switch statement with an example. (unit II: Control structure)
- 4. What is a pointer? Give an example of passing the value using pointer. (III: Predefined/library function)
- 5. Write a program that takes three arguments and declare a default value to the last argument. (IV: Function)
- 6. Write a program to input any ten numbers in an array and find the greatest number. (Unit V: Array)
- 7. What is multithreading? (unit VI: Multithreading)
- 8. Write a program to read the contents of a text file and display them on the screen using appropriate method. (Unit VII: Files and operations)

Group C

Answer any two questions:

[20x2=40]

- 9. Define Object Oriented Programming. Explain the features of OOP. Give an example to implement inheritance in C++. (unit I: Introduction to computers)
- 10. Explain if-else, while loop and for loop with examples. (unit II: Control structure)
- 11. Explain function. What is function overloading? Write a program to overload functions with different types of arguments and different number of arguments. (unit IV: Function)

Board Examination, 2018

BIT, First Subject : I Set : B	Full Marks : 100 Pass Marks : 40 Time : 3 hrs						
	Group A (Multiple Choice Questions)						
Select the	correct answers:	[30x1=30]					
1.	Which of the following concept of oops allows compiler to insert argif it is not specified?	guments in a function call					
	(a) Call by value (b) Call by reference (c) Default arg pointer	guments (d) Call by					
2.	Local Variables can be access?						
	(a) Code block enclosed in braces { }.						
	(b) Code block enclosed in bracket ().						
	(c) Code block enclosed in square bracket [].						
	(d) None of the above						
3.	How many types of polymorphisms are supported by C++?						
	(a) 1 (b) 2 (c) 3 (d) 4						
4.	Which of the following is correct about function overloading?(a) The types of arguments are different.(b) The order of argument is different.(c) The number of argument is same.						
	(d) Both A and B.						
5.	Which of the following is the correct class of the object cout?						
		(d) ifstream					
6.	Which of the following statement is correct?						
	(a) Class is an instance of object.						
	(b) Object is an instance of a class.						
	(c) Class is an instance of data type.						
	(d) Object is an instance of data type.						
7.	Which of the following function declaration is/are incorrect?						
	(a) int Sum(int a, int $b = 2$, int $c = 3$);						
	(b) $int Sum(int \ a = 5, int \ b);$						
	(c) int Sum(int $a = 0$, int b , int $c = 3$);						
	(d) Both B and C are incorrect.						
8.	Which of the following statement is correct?						
	(a) The order of the default argument will be right to left.						
	(b) The order of the default argument will be left to right.						
	(c) The order of the default argument will be alternate.						
_	(d) The order of the default argument will be random.						
9.	What is the mandatory preprosessor directive for c++?						
	(a) #define (b) #include (c) #undef (d) none of the	mentioned					
10.	What is the output of this program?						

#include<iostream.h>

	<pre>void main()</pre>				
	{int a;				
	a = 5 + 3 * 5;				
	cout << a;}				
	(a) 40	(b) 20	(c) 25	(d) 30	
11.	What is the ge	eneral syntax for	r accessing the namesp	ace variable?	
	(a) namespac	eid::operator	(b) namespace		
	(c) namespace	•	(d) none of the	e mentioned	
12.	What is a arra	=			
	•		ements of the same ty	pe in contiguous me	mory locations.
	•	s a series of eler			
	locations		ments of the same type	placed in non-contig	uous memory
	(d) None of th				
13.		-	tring with blankspace?		
	(a) inline		(c) putline (d) No		
14.	•	ined at the progr	ram scope level (ie. outs	ide functions and class	ses) is said to be
	(a) local scope	(b) regional so	one (a) global sacr	no (d) s	totio soono
15.	• /	, , ,	cope (c) global scop listed in C++ standard li		tatic scope
13.			able formatting of stream	_	iction prototypes for
	(a) <iomanip></iomanip>	-	•		cstdio>
16.	• •		e passed to a function b	` '	
	(a) Pass by va mentioned		(b) Pass by reference	-	(d) All of the
17.	Which of the	following paran	neter passing mechanis	m is/are supported by	C++ but not in C?
	(a) Pass by va mentioned	lue	(b) Pass by reference	e(c) Pass by pointer	(d) All of the
18.	Which of the	following storag	ge classes have global v	visibility in C++?	
	(a) Register	(b) Static	(c) Auto (d) Ex	tern	
19.	In object orier achieve		ng, by wrapping up cha	aracteristics and beha	vior into one unit, w
	(a) Data Abstr mentioned	raction (b) Da	ata Encapsulation	(c) Data Hiding	(d) All of the
20.	What will be t	he output of the	e following code segme	ent?	
	char C1 = 'A'	, C2 = 'D';			
	char *i, *j;	-C2.			
	i = &C1 j = & * $i = j;$	&C2			
	(a) A	(b) D	(c) Al	D	(d) None
21.	, ,	` '	tor can be overloaded :		(d) I tone
	(a).	(b) &	(c) siz		(d) ?.
22.	Overload func	` ,	(0) 512		(-/
			ections with the same	name	
		•	ions with same number		nts
		•		• • • • • • • • • • • • • • • • • • • •	

	(c) means to h	ave functions with d	ifferent names			
	(d) All of the a	above				
23.	The difference	es between construct	ors and destructor	are		
	(a) constructor	rs can take argument	s but destructor ca	an't		
	(b) constructor	rs can be overloaded	but destructors ca	an't be overload	ed	
	(c) both a and	l b				
	(d) None of th	ese				
24.	The fields in a	class of a C++ prog	ram are by defaul	t		
	(a) protected	(b) public	(c) pr	rivate	(d) None of these	
25.		n operator	keyword	must be used alo	ong with the operator to be	
	overloaded.	(b) asserband	(a)i-d	(d) and		
26	(a) over	(b) overload	(c) void	(d) ope	erator	
26.	(a) class name	ntax of inheritance of	of Class!			
	` '	: access specifier				
	1	e: access specifier (oloce nomo			
	(d) None of th	_	lass name			
27.	` /	is initialized when an object is created.				
21.	(a) Construct		Destructor	(c) Array	(d) Pointer	
28.	` ′	orrect statement reg		` ′	(d) I officer	
20.	•	iables are declared in	0 1		m any program	
			_			
	(b) Local variables are declared inside a function and accessible within the function only.(c) Global variables are declared inside a function and accessible from anywhere in program.					
	(d) Local variables are declared in the main body of the program and accessible only from					
	functions.	iolos are deciared in	the main soup of	the program and	a decession only non	
29.	Which constructor function is designed to copy objects of the same class type?					
	(a) default constructor					
	(b) object constructor					
	(c) dynamic constructor					
	(d) copy constructor					
	Which stroom	aloggig to only wri	te on files?			
30.	willen stream	i class is to only will				

Group B

Answer any six questions:

[6x5=30]

- 1. Explain scope resolution operator with an example. (unit I: Introduction to computers)
- 2. Explain float data type with example. (unit I: Introduction to computers)
- 3. Explain type casting in C++ with example. (unit I: Introduction to computers)
- 4. Explain for loop. Write a program to display odd numbers from 1 to 19 using for loop. (unit II: Control structure)
- 5. Write a program to input length and breadth of a rectangle and find the area of the rectangle using passing by value method. (III: Predefined/library function)
- 6. Explain the library function streat() with an example. (IV: Function)
- 7. Write a program to overload binary operator +. (IV: Function)
- 8. Write a program to write data in a file using appropriate method. (Unit VII: Files and operations)

Group C

Answer any two questions:

[20x2=40]

9. Explain selection structure. Write a program that takes marks in five subject and finds out total and percent. The full marks is 100 in each subject. Find grade according to the given criteria: (unit II: Control structure)

Percent >=90 to 100, A

Percent>=80 and percent <90, B

Percent>=70 and percent <80, C

Percent>=60 and percent <70, D, otherwise E

- 10. What is a constructor ? Explain default constructor and parameterized constructors with examples. (IV: Function)
- 11. Explain array. Write a program to input any ten numbers, pass these numbers to a function that returns the total of these numbers. (unit V: Array)