Printed Pa	age:-	ubject Code:- ACSBS0302	
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	NOIDA INSTITUTE OF ENGINEERING AN	· · · · · · · · · · · · · · · · · · ·	R NOIDA
	(An Autonomous Institute Affili B.Tech		
	SEM: III - THEORY EXAMINATI		
	Subject: Object Oriento		
Time: 0	02:00 Hours		Max. Marks: 100
General I	nstructions:		
1. <i>All</i>	questions are compulsory. It comprises of two Se	ections A and B.	
• Caa	otion A. Quartier No. 1 has 25 objective type au	astions agrining 2 marks agab	
• Sec atte	ction A - Question No- 1 has 35 objective type que ction B - Question No- 2 has 12 subjective ty empt any 10 out of 12 question. sheet should be left blank. Any written material o	pe questions carrying 3 mark	
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	SECTION A	-	$35 \times 2 = 70$
-	ot ALL parts:-		
1.1.a	Which of the following statement is correct for	0 1	? 1
	(a) Only int can be used in "switch" con	•	
	(b) Both int and char can be used in "sw	-	
	(c) All types i.e. int, char and float can be	•	pression.
	(d) "switch" control expression can be e		
1.1.b	In a C expression, how is a logical AND repres	ented?	1
	(a) AND		
	(b) \$\$		
	(c)		
	(d) &&		
1.1.c	Which of the following is not a keyword in c?		1
	(a) extern		
	(b) const		
	(c) register		
4 4 1	(d) All of these are keywords	1 6 4 4 1 4 6 1	4
1.1.d	Part of algorithm which is repeated for fixed nu	imber of times is classified as	1
	(a) iteration		
	(b) selection		
	(c) sequence		
11.	(d) reverse action		1
1.1.e	What will be the output of the following code #include		1
	void main()		
	{		
	int i=0;		

printf("while vs do-while");

} while(i==0);
printf("out of loop");

	(a) while vs do-while' once	
	(b) 'Out of loop' infinite times	
	(c) Both 'while vs do-while' and 'Out of loop' once	
	(d) 'while vs do-while' infinite times	
1.1.f	Choose a syntax for C Ternary operator from the list.	1
	(a) condition ? expression1 : expression2;	
	(b) condition: expression1? expression2;	
	(c) condition ? expression1 < expression2;	
	(d) condition < expression1 ? expression2;	
1.1.g	What is the result of $4 << 2$?	1
_	(a) 4	
	(b) 8	
	(c) 16	
	(d) 0	
1.2.a	An inline function is expanded during	1
	(a) compile-time	
	(b) run-time	
	(c) never expanded	
	(d) end of the program	
1.2.b	What will be the output of the following C++ code?	1
	#include	
	using namespace std; void car{	
	cout << "Audi R8";	
	}	
	<pre>int main() { car();</pre>	
	return 0; }	
	(a) Audi R8	
	(b) Audi R8Audi R8	
	(c) compile time error	
	(d) runtime error	
1.2.c	Which of the following is the default return value of functions in C++?	1
1.2.0	(a) int	•
	(b) char	
	(c) float	
	(d) void	
1.2.d	What are mandatory parts in the function declaration?	1
	(a) return type, function name	
	(b) return type, function name, parameters	
	(c) parameters, function name	
	(d) parameters, variables	
1.2.e	For accessing a global variable when a local variable of the same name is in scope, C++	1
	provides a	
	(a) Function for accessing	
	(b) An operator for accessing	
	(c) A class for accessing	

	(d) None of them	
1.2.f	Which from the following is used for invoking a function?	1
	(a) call-by-reference	
	(b) call-by-value	
	(c) call-by-functions	
	(d) Both A and B	
1.2.g	Unary scope resolution operator is denoted by	1
	(a)!!	
	(b) % %	
	(c):	
	(d)::	
1.3.a	Which of the following type of class allows only one object of it to be created?	1
	(a) Virtual class	
	(b) Abstract class	
	(c) Singleton class	
	(d) Friend class	
1.3.b	Which language among the following supports classes, but does not support the concept of Polymorphism?	1
	(a) C++ programming language	
	(b) Java programming language	
	(c) Ada programming language	
	(d) C# programming language	
1.3.c	was the first language to be developed as a purely object-oriented programming language?	1
	(a) Smalltalk	
	(b) C++	
	(c) PHP	
	(d) Java	
1.3.d	Which of the following is not a main feature of OOPs?	1
	(a) Encapsulation	
	(b) Polymorphism	
	(c) Exception	
	(d) Abstraction	
1.3.e	Which among the following operators can be used to show Polymorphism in CPP?	1
	(a) Overloading <<	
	(b) Overloading &&	
	(c) Overloading	
	(d) Overloading +=	
1.3.f	Which superclass member won't be accessible to the subclass?	1
	(a) Public member	
	(b) Protected member	
	(c) Private member	
	(d) All of the mentioned	
1.3.g	Who developed the first object-oriented programming language?	1
	(a) Adele Goldberg	
	(b) Dennis Ritchie	

	(c) Alan Kay	
1.4.a	(d) Andrea Ferro The pointer to a function is known as function	1
1.4.a	The pointer to a function is known as function. (a) forward	1
	(b) pointer	
	(c) callback	
	(d) backward	
1.4.b	Which constructor will be called first from the classes involved in single inheritance from	1
1.1.0	object of derived class?	•
	(a) Base class constructor	
	(b) Derived class constructor	
	(c) Both class constructors at a time	
	(d) Runtime error	
1.4.c	Which is used to handle the exceptions in c++?	1
	(a) catch handler	
	(b) handler	
	(c) exception handler	
	(d) throw	
1.4.d	How does C++ compiler differs between overloaded postfix and prefix operators?	1
	(a) C++ doesn't allow both operators to be overloaded in a class	
	(b) A postfix ++ has a dummy parameter	
	(c) A prefix ++ has a dummy parameter	
	(d) By making prefix ++ as a global function and postfix as a member function.	_
1.4.e	If single inheritance is used, program will contain	1
	(a) At least 2 classes	
	(b) At most 2 classes	
	(c) Exactly 2 classes	
1 4 6	(d) At most 4 classes	1
1.4.f	Which language doesn't support single level inheritance?	1
	(a) Java	
	(b) C++ (c) Votlin	
	(c) Kotlin (d) All languages support it	
1.4.g	Which of the following operators cannot be overloaded	1
1.4.g	(a) . (Member Access or Dot operator)	1
	(a) . (Welliber Access of Dot operator) (b) ?: (Ternary or Conditional Operator)	
	(c) :: (Scope Resolution Operator)	
	(d) All of the above	
1.5.a	Streams that will be performing both input and output operations must be declared as class	1
11010		-
	(a) iostream	
	(b) fstream	
	(c) stdstream	
	(d) Stdiostream	
1.5.b	Attributes are the data that represents characteristics of interest about an object.	1
	(a) TRUE	

	(b) FALSE	
1.5.c	Which of the following is a C++ class?	1
	(a) cin	
	(b) >>	
	(c) iostream	
	(d) read()	
1.5.d	Which type they considered Activity diagram, use case diagram, collaboration diagram, and sequence diagram?	1
	(a) non-behavioral	
	(b) non-structural	
	(c) structural	
	(d) behavioral	
1.5.e	A class is divided into which of these compartments?	1
	(a) Name Compartment	
	(b) Attribute Compartment	
	(c) Operation Compartment	
	(d) All of the mentioned	
1.5.f	A Class consists of which of these abstractions?	1
	(a) Set of the objects	
	(b) Operations	
	(c) Attributes	
	(d) All of the mentioned	
1.5.g	A system consists of:	1
	(a) A set of objects	
	(b) The attributes of objects	
	(c) The relationships between objects	
	(d) All of the above	
	$\underline{SECTION B} \qquad 10 X 3 = 30$	
2. Answ	ver any <u>TEN</u> of the following:-	
2.1.a	Evaluate the expression a&b when $a = 121$ and $b = -15$	2
2.1.b	What do you understand by mixed operands?	2
2.2.a	Define Function defination, declaration and function calling.	2
2.2.b	Comment of function calling with example.	2
2.2.c	Define call by value with example.	2
2.3.a	What is the main difference between overloading and overriding?	2
2.3.b	What is operator overloading?	2
2.3.c	What is an Inline function?	2
2.4.a	What is try-catch block?	2
2.4.b	What is throws clause ?	2
2.5.a	Explain Behavioral Modeling.	2
2.5.b	Explain the purpose of a Sequence Diagram.	2