(Autonomous Institution – UGC, Govt. of India) UG Model question paper

Time: 3 hours Object Oritented Programme Max Marks: 70

Note: This question paper contains of 5 sections. Answer five questions, choosing one

Note: This question paper contains of 5 sections. Answer five questions, choosing one question from each section and each question carries 14 marks

question from each section and each question carries 14 marks		
Section-I		
1. a)Describe OOP concept in C++	[7M]	
b)List out operators and describe them.	[7M]	
OR	F	
2. a)Write the structure of C++ program	[4M]	
b) Differentiate OOP and POP c)What is the purpose of Namespace	[7M]	
Section-II	[3M]	
3. a)Describe inline function.	[5M]	
b)Write about access control with examplr program each	[4M]	
c)Define friend function	[5M]	
OR		
4. a) What are default arguments.	[7M]	
b)Write about static class members.	[7M]	
Section-III		
5. a)Describe types of constructors.	[7M]	
b) Explain Dynamic constructor with an example	[7M]	
OR		
6. a)List out types of inheritance .Explain	[7M]	
b) Define destructor .Explain with an example program	[3M]	
c)Clearly explain constructor s in derived class	[4M]	
Section-IV		
7. a)Explain Runtime polymorphism.	[7M]	
b) Describe virtual function with an example.	[7M]	
OR	F=3.43	
8. a)Describe about Dynamic memory allocation with its functions	[7M]	
b) Explain about pointer and functions	[7M]	
9. a)Explain types of templates.	[7M]	
b) Describe types of Exception.	[7M]	
OR		
10. a) Expalin class templates with multiple parameters.	[5M]	
b) Clearly describe Rethrowing an exception	[5M]	
c)Write about specification exception.	[4M]	

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SECTION-I

	SECTION-I		
1.	Explain briefly about Object Oriented Programming concepts?	[14M]	
	OR		
2.	 a) Explain briefly about new, delete, setw endl, ScopeResolutionOperators in C++? b) Write a C++ program for sorting of numbers Descending order SECTION-II 	[7M] [7M]	
3	a)Explain static Data Members and static member functions	[7M]	
J.	b)Define class? Explain how to declare class with one example program? OR	[7M]	
1	a)How to access private members of class using non member functions with one		
4.	example?	[7M]	
	b) How many ways to pass object as a function arguments explain with example program?	[7M]	
	SECTION-III		
5.	a) Define Inheritance? Explain Multiple, Hierarchical Inheritance?	[7M]	
	b) Explain briefly about Types of Constructors with one example?	[7M]	
	OR		
6.	a) Explain briefly about Virtual Base Class with one example?	[7M]	
	b) Explain about constructors in derived class?	[7M]	
	SECTION- IV		
7.	How to achieve run time polymorphism in C++ explain with one example program	[14M]	
	OR		
8.	a)Explain briefly about this pointer?	[7M]	
	b) Explain briefly about pointer to derived classes?	[7M]	
	SECTION- V		
9.	a) Explain class templates with multiple parameters?	[7M]	
	b) Explain function templates?	[7M]	
(OR)			
10). Explain briefly about exception handling?	[14M]	

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Not	te: This question paper contains of 5 sections. Answer five questions, choosing one question from each section and each question carries 14 marks	
1.	Section-I a) Differentiate Object oriented programming and procedure oriented programming	[7 M]
	b) Write a brief note on the principles of Object Oriented Programming.	[7M]
	OR	
2.	a) State the benefits of Object Oriented Programming	[4 M]
	b) Differentiate entry-controlled-loop and exit-controlled-loop	[4 M]
	c) Write a C program to display prime number between 1 and n	[6 M]
•	Section-II	[
3.	a) Explain Static members and Static Member functions in detail	[7 M]
	b) Differentiate an inline function and a friend function	[7 M]
	OR	
4.		[12M]
	b) State the usage of scope resolution operator.	[2 M]
_	Section-III	
5.	a) Explain - Hierarchical Inheritance, Multiple Inheritance and Multilevel Inheritanceb) Write a program to illustrate the order of execution of constructors and destructor	
	b) write a program to mastrate the order of execution of constructors and destructor	5 [11.1]
	OR	F 6 3 47
6.	a) Write a short note on constructors and destructors.	[6 M]
	b) Explain Operator Overloading.	[8 M]
7	Section-IV	[
/.	a) Write a program to illustrate the usage of memory management operators	[6 M]
	b) What is meant by Runtime polymorphism?	[8M]
	OR	
8.	a) What is the use of this pointer?	[3M]
	b) Write a program to illustrate pure virtual function.	[8M]
	c) Do we have virtual destructors? Justify your answer.	[3M]
_	Section-V	
9.	a) Differentiate class templates and function templates	[8M]
	b) State the types of exceptions	[4 M]
	c) Write a program to illustrate catching of all exceptions	[2M]
4.0	OR	[2] 4]
10	a) What is meant by generic programming?	[2M]
	b) Write a template based program to sort the given list of elements	[6M]
	c) Explain the following three keywords – try, catch, throw	[6M]

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Time: 5 nours	Object Oritented Programme	Max Mai KS: 70
Note: This question paper co	ontains of 5 sections. Answer five question	ns, choosing one
	ction and each question carries 14 marks	•
•	SECTION-I	
1. Write the differences be	etween POP and OOP?	[14M]
		. ,
	OR	
	which demonstrates scope resolution op	
b) Write a C++ program	for sorting of numbers Ascending order	[7M]
	SECTION-II	
3. a) Explain static Data Mo	embers and static member functions in d	etail with example
Programs?		[7M]
b) Explain about friend	function with example program?	[7M]
	OB	
4 - 211- 4	OR	
4. a JHow to access private	members of class using non member fun	-
	1	[7M]
b J Explain Inline functio	n with example program?	[7M]
	CECTION III	
E	SECTION-III	[7] (1
-	xplain Hybrid, Multi path Inheritance?	[7M]
b J Explain briefly about	Types of Constructors with one example	? [7M]
	OR	
6. a) Explain briefly about	Virtual Base Class with one example?	[7M]
b) Explain about construc		[7M]
-, -		[]
	SECTION- IV	
7. Explain run time polymo	orphism with example program?	[14M]
		[]
OR		
8. a)Explain briefly about t	this pointer?	[7M]
	pointer to derived classes?	[7M]
		. ,
	SECTION- V	
9. a) Explain class template	es with multiple parameters?	[7M]
	plates with example programs?	[7M]
, i		L J

OR

[14M]

10. Write about Exception handling in detail?

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Note: This question paper contains of 5 sections. Answer five questions, choosing one question from each section and each question carries 14 marks

	question from each section and each question earries 14 marks			
	Section-I			
1.	a)Explain Basic concepts of OOP in C++	[7M]		
	b)Explain operators of C++ in detail.	[7M]		
	OR			
2.	a) Write the structure of C++ program	[4M]		
	b) Differentiate OOP and POP	[7M]		
	c) What is the purpose of Namespace	[3M]		
	Section-II			
3.	a)Explain inline function with an example.	[5M]		
	b)Write about access control with example program each	[4M]		
	c) Explain friend function with syntax	[5M]		
	OR			
4	a) Explain default arguments with an example.	[7M]		
••	b)Write about static data members.	[7M]		
	Section-III	[,]		
5.	a)Describe types of constructors.	[7M]		
	b) Explain Dynamic constructor with an example	[7M]		
	OR			
6	a)List out types of inheritance .Explain	[7M]		
0.	b) Define destructor .Explain with an example program			
		[3M]		
	c) Explain constructor s in derived class Section-IV [4M]			
7	a)Explain Runtime polymorphism.	[7M]		
/.	b) Describe pure virtual function with an example.			
	b) bescribe pure virtual function with an example.	[7M]		
	OR			
8.	a)Describe about Dynamic memory allocation with its functions	[7M]		
	b) Explain about pointer and functions	[7M]		
	Section-V	. ,		
9.	a)Explain types of templates.	[7M]		
	b) Describe types of Exception.	[7M]		
10	OR	[[] M]		
10	a) Expalin class templates with multiple parameters.	[5M]		
	b) Clearly describe Rethrowing an exception	[5M]		
	c)Write about specification exception.	[4M]		

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Object Oritented Programme

Time: 3 hours

Note: This question paper contains of 5 sections. Answer five questions, choosing one question from each section and each question carries 14 marks Section-I 1. a) Explain features of object oriented programming? [6M] b) List the operators added by C++ which aid OOP? [6M] c) Discuss the need of enum? [2M] OR 2. a) Write in detail about different types of loop statements with syntax and examples? [10M] b) Differentiate between Procedure Oriented and Object Oriented Programming? [4M] **Section-II** 3. a)Define a Class and Object? Write a program to create a class STUDENT with the following specifications. Data members: Name, Roll No. And Average Marks Member functions: Read & Write Use the above specification to read and print the information of a student. [6M] b) What are friend functions? Write a c++ program to find the sum of two complex numbers using friend functions [8M] OR 4. a) Write an example to show how objects are passed as arguments to a function [8M] b) What are static member functions? Explain with an example [6M]

4. a) Write an example to show how objects are passed as arguments to a function b) What are static member functions? Explain with an example Section-III 5. a) What are constructors? Explain the different types of constructors with syntax? b) What are the different forms of inheritance? Give an example for each? OR 6. a) What is Inheritance? Write a c++ program to illustrate multiple inheritance? b) What is a copy constructor? Write an example showing the use of copy constructor? Section-IV 7. a) Differentiate between early binding and late binding, with an example explain how late binding can be achieved in C++. [8M] b) What are pure virtual functions? Explain with an example? [6M]

complex numbers? [8M] b) What are virtual Destructors? Explain with an example? [6M]

OR8. a) What is Operator Overloading? Write a program to overload + binary operator for

Section-V 9. a) Define a template? Write a function template to swap two numbers [8M] b) Discuss about the importance of try, catch and throw keywords? [4M]

c) Distinguish between overloaded functions and function templates? [2M]

10. a)Write an example of a class template?	[8M
b) Write a C++ Program to illustrate exception handling?	[6M

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	nis question paper contains of 5 sections. Answer five ques uestion from each section and each question carries 14 ma		
qι	Section-I	TRS	
1. a)	Differentiate object oriented programming & procedure of	riented programming. [7M]	
-	Explain the following concepts in C++?	[7M]	•
i)typecasting ii)reference variables. iii)scope resolut	ion operator	
	OR		
_	Write in detail about different types of loop statements wi)Explain features of OOP in C++.	th syntax and examples? [7M] [7M]	•
۷)	Section-II	[,]	l
3. a)	Explain inline function with program.	[5M]	
b)	Explain objects as function arguments with program	[4M]	
c)	Write a C++ program for friend function.	[5M]	
	OR		
-	Explain array of objects with program.	[7M]	
b _.) Explain about static member functions with program.[7	MJ	
	Section-III		
	efine Constructor.Explain the following Constructors with		1]
a _s)Parameterized constructor b)Copy constructor c)D	ynamic constructor.	
	OR		
6. a)	Explain different types of inheritance with programs.	[14M	1]
7 0	Section-IV	[E N	<i>.1</i> 17
-	Explain this pointer with program. Explain abstract classes with program.	[5N [5N	_
)Write a C++ program to overload unary operator(++)?	[4N	_
		[· <u>+</u>]
0	OR	5-2.4	• 7
	Explain about virtual base classes with program.	[5M	_
) Write a C++ program to overload binary operator(+).	[4M	_
C	Explain pointers to derived classes with program? Section-V	[5M	IJ
9. a`) Define a template? Write a function template to swap two	numbers [8M	11
-	Discuss about the importance of try, catch and throw key	-	-
-	Distinguish between overloaded functions and function t	-	_
	OR		
10. a))Write an example of a class template?	18]	4]
b]) Write a C++ Program to illustrate exception handling?	[6N	I

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Time: 3 hours Max Marks: 70 **Object Oritented Programme**

Note: This question paper contains of 5 sections. Answer five questions, choosing one question from each section and each question carries 14 marks Section-I 1. a)Explain the differences between POP and OOP. [7M] b)Explain the different types of data types in C++. [7M] OR 2. a)Explain the different types of operators in C++. [7M] b) Write a C++ program to print the Fibonacci sequence of first n terms. [7M] Section-II 3. a) Explain class and object with an example program. [7M] b)Explain inline function with an example program. [7M] OR 4. a) Explain friend function with an example program. [7M] b) Write about static data members and static member functions. [7M] **Section-III** 5. a)Describe the different types of constructors in C++. [7M] b)Explain multiple inheritance with an example program. [7M] OR 6. a) Explain the differences between constructors and destructors. [7M] b)Explain hierarchical inheritance with an example program [7M] **Section-IV** 7. a)Explain the different types of polymorphisms in C++. [7M] b) Explain virtual functions with an example program. [7M] OR 8. a)Describe about dynamic memory allocation with its functions. [7M] b)Explain operator overloading with an example program. [7M] **Section-V** 9. a)Explain the different types of templates in C++. [7M] b)Expalin exception handling mechanism in C++. [7M]

OR

[7M]

[7M]

10. a) Expalin class templates with multiple parameters.

b) Explain the different types of exceptions with an example program.

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	Section-I	
1. a)Explain Basic Concepts of OOP in	n C++.	[7M]
b)Explain the following concepts in		[7M]
i)typecasting ii)reference var	iables.	
	OR	
2. a)Write the structure of C++ progra	am.	[4M]
b) Differentiate OOP and POP.		[7M]
c)What is the purpose of Namespa		[3M]
	Section-II	
3. a)Explain inline function with pro	-	[5M]
b)Explain objects as function argum		[4M]
c)Write a C++ program for friend	function.	[5M]
	OR	
4. a) Explain array of objects with pr		[7M]
b)Explain about static member for		[7M]
	Section-III	F4 43 43
5. Define Constructor.Explain the following		[14M]
a)Parameterized constructor	b)Copy constructor c)Dynamic constructor.	
	OR	
6. Explain different types of inherita		[14M]
	Section-IV	
7. a)Explain this pointer with progra		[5M]
b) Explain abstract classes with pr		[5M]
c)Write a C++ program to overloa	d unary operator(++)?	[4M]
	OR	
8. a)Explain about virtual base classe	es with program.	[5M]
b) Write a C++ program to overloa		[4M]
c)Explain pointers to derived class		[5M]
	Section-V	F#3.47
9. a) Explain function templates with		[5M]
b) Explain about specifying except		[5M]
c)Briefly explain exception handli	ng mechanism.	[4M]

[5M]

[5M]

[4M]

10. a) Explain class templates with multiple parameters.

b) Clearly describe Rethrowing an exception.

c)Explain member function templates.

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	Section-I			
1.	a)Explain the differences between POP and OOP.	[7M]		
	b)Explain operators of C++ in detail . OR	[7M]		
2.	a) Write the structure of C++ program	[4M]		
	b) Explain basic concepts of OOP	[7M]		
	c) What is the purpose of namespace	[3M]		
2	Section-II a) Explain inline function with an example.	[EM]		
Э.	b)Write about access control in C++	[5M] [4M]		
	c) Explain friend function with example program	[5M]		
4	OR	[4 N 4]		
4.	a) Explain default arguments with an example.b) Write about static data members and static member functions with an example program	[4M]		
	Section-III	i.[IUM]		
5.	a)Describe types of constructors.	[7M]		
	b) Explain Dynamic constructor with an example	[7M]		
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6.	a)List out types of inheritance .Explain	[7M]		
	b) Define destructor.Explain with an example program	[3M]		
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7	Section-IV a)Explain Runtime polymorphism.	[7M]		
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	-,	[]		
_	OR	5-1-2		
8.	a)Describe about Dynamic memory allocation with its functions	[7M]		
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10	OR . a)Expalin class templates with multiple parameters.	[5M]		
10	b) Clearly describe Rethrowing an exception	[5M]		
	c)Write about specification exception.	[4M]		