1	
	Date Name: Rahul Quman Mehra
TP	Choose the convect option
Id.	Stacks
2.0	Compiler every in line "Derived #dp= new Bari,"
3. a.	maccenible.
y a	The marsh of 12 11 1
	The members of fines destructors is called depends on numbers of object creented.
5. a.	Town.
	Short answer type question.
1	Syntax to me new operator: To allocate
	Syntax to use new operator: To allocate memory of any double type the syntax is
	pointer-variable = new datatype i
	detete menatori
	Since It is programment suppossibility to
	deal orate dynamically allocated memory
	detete operator. Since it is programmers supportibility to deallocate dynamically allocated memory, programmers one programmers one provided delete operator.
	Synton
	Il Releau memory pointed by pointer-variable delite pointer-variable;
	delite pointer-variable;
-	Page No.
	Page No.

Saa Example. Int mount in *p = Null;

Il Require memory por the variable

Il wing new operator.

p= new (nothrow) int;

if (!p) contex "allocation of memory failed in"; 11 Store value of allocated address contict" value of p: "xx 10 24 end Il Regust block of memory Il Using new operator Float * H = new Float (45.25); course" Value of Mi "xx * Mx eend; Il Request block of memory y of 28/20 17 int +q = new (nothrow) Int [n]; couter allocation of memory falled in" elu Page No. 2

Date _	_/_	/_	



For Clot 1= 0; (<n; 1++) 9[1]=1+1; couter "Value Store In block of memory:";

[Dry (Int i = 0; i < n; i++) coul (int contragen; coutes quit <<" "; 11 Freed the allocated memory. delete pi (daman) I Freed the block of allocated memory dolete [79; john of setwin 0; 2. A constructor is a member function of a clau constructor is automatically called when object Cintance of class create It in special purpose of the class construction in utprogramming is to construct an object of the clay Default constructor is the contructor

which doesn't take any argument. It has no parameter.

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FOH example. class cube public; Side 210; contrac. side; Parameter 12ed Contructors There are the constructors colta parameter using the constructor you can provide different value to data member of different object, by passing the appropriate value as arounent. Por example Page No.

	X = Q;
	Es de la
	ALALD
	8. It is it is a large to the start of the s
	X=1.X; () () ()
	3
	3;
	Int man () (00) 00 odi
	11 Jose 23 (80): (1) Lindy War of the
	A al(20); 10 10 10 10 10 10 10 10 10 10 10 10 10
	A a2 (at); Sabia. 20 sodie
	contreal x;
	suturin 0;
1	3. (16)(a) (a)
internal	Constructors
13.	Procedural Origented Object Ordented
- (·)	Programming Programming
1 40	In procedural program. In object oriented
Allow - k	ming, program is divided programming program
	Into small parts called is divided into small
1/	Junction parts called objects.
A	Procedural programming Object ordented programming Object ordented programming Object ordented programming
	approach.
k	There Is no access Object orilented programme
	specifier in procedural have access specifiers
1	programming. like prevate, public
196	protected etc.



	Date// (Saathi)
*	Adding new duta and Adding new duta and
Control	Junction is not easy function is easy
K	Procedural programming Object ordented
- Jarol	does not have any perper programming provides
hoas	way for hiding delta delta hiding 10 ?!
	so it is les secure. more secure.
A	Perocedural programming Object oriented
	Is bound on unual programming in bound
	world.
10	Ex: C FORTRAN Pascul, Ex: C++, Java, Python,
	Basic etc. C# etc.
	Long answer type quistion.
A	Type of Polymonphlam. C++ support two type of polymonphlam
	C++ Support two type of polymorphism
	Compile time polymorphism
	You invoke the overloaded Junction by
	matching the number and type of argument
	The Introduction of the Introduction of the
	This is the present during compile-time
	and the ctt compiler will relect the
	The Information is present during compile him This means the c++ compiler will relect the oright function at compile time.
	· · · · · · · · · · · · · · · · · · ·
	Compile time polymorphism is achieved thorough function overloading and operators overloading.
	Therough function overloading and operator
	overloading.
	Ashanitation of a secondary of

Live I have that the same of the Function Overloading Function overloading occurs when we have many function with similar names but different auguments. The auguments may differ in terms of number on type-Example: 100jd) man of 11 1 5 mis #Include lostouams ung namespace (Admin) Vold lest Cintil coute "The Int? 3" xx? xx end! void test (double p) cout <2" The Float Is" << | << end; Yord test (chay could tich) cout xx" The char +18" xx ch xx end! · B. S. stages of the stages int main () test (5) judges and some test (5.8); have hardy fort ("Five"); sutwin 0; PAGE No. 8



Page No. [

Million Bears Information In the Section	
Operator Overloading	
In operatori overloading we defin	u a new
meaning long a c++ operator, TI	also
meaning for a c++ operator work.	on example
we can define the + operator +	O un cotena
two string we know it on the add	Libian
operator for adding primb numeric	al value
offer our definition when placed beto	2016
integer It will add them when plan	het sam
11 of the all considerate them	· Selever
Along It will concatenate them.	1
Comple.	
#includix fortowanz	
Armende Cronsons	
uling namuspace Atd; Many	A Visit
Claux Complex Mum	2
2	
pulvate:	
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public's probable bolled bedaying	+ 1
complex Num (Int ouz o, intovz	(0)
2 min or my transfer walls	
real = Il;	
OVOY = OV	
Q.	
complex Num operator + Ccomplex Num	cont tobi
2	A STATE
complex Num result;	
complex wim result,	1

enult. over = over + objected; stehin rusul; more & street it stronge interest Marchan Void print Charles 2-10 all vas of chairs all acquire land contravealxi"+i"xa over exendi; ne dependence conce lande 18 int main contonos la la complex Num c1(10,2), ca (3,71; complex Num c3 = c1+c2; 3. point (); ble supported in Runfine Polymorphism
This happens when an object smethod is invoked Icalled dwing suntimo rather than during compile time Runifime polymorphism is achieved throw function oversilding this function to be called I mobed is established during summir Function Oversuding Function overlyding occurs when a puncher of the ban clay is given a new definition



	Date/
	the box function has been oversitting.
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and t	rample : and an paradometer
hinillo	had the a special function h
4	# netudix fortaceams
	Clau mammal
11	Clau mammal
	2 at le adimental adlamansi
	public: I have been did
	Void eat ()
hota.	The shared limetion clear is words
	coutes " mammals eat "
	English to left the whole for english
	9;
	Clau cow: public mammal &
	public: 1612 magningrill
	void eat a land interest
	2
	contac' cows eat gran "]
	3 Cond American
	8:
1	Int maln (vold) 2
-	STREET AND ADDRESS
	cow c = cows();
	c.eat c);
	enduin 0;
	9. Ample woulder : production
	THE PROPERTY OF THE PARTY OF TH
	The second of th

Saati Vierfred Function A visitual function is another way of Implementing own-time polymorphim in c++. It is a special junction defined in a based dark and redefined in derived day To declare a virtual tog. Keywoord The keywoord should precede the declaration of the junction In the bare class. The virtual function clay is inherited the virtual function to suft It's needs for example. #Include & Portruams 6. day 1000 1 uing nomespau Atdi clay clay All Mas Asia Vintual void shows coutes" The show of junction in base class invoked "Kendli s Els Clar claris: public a claria

Public:

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Vold sout 12 (int all, int any stru)

int lo 20

int hi = any size + 1;

int mid = 0;

page No. 13



(18/35)	Date_/_/_	
	11 Dura code to represent wall	
	int maine	
	2 Harris department of the	
	Int asor[J=&1,1,2,2,0,0,21,23;	
	Int n = 1 ino (avoi) / sireo (avoi los);	
	April 012 (aver, n);	
(assas)	wouter "averay offer regregation";	
	pount averay (aver, n).	
	insperse as now employed	
	return 0; Syx = smon.	1
	9.1	
	19 19 19 19 19 19 19 19 19 19 19 19 19 1	17
C.	Clan Member Eyery March	
	8 (alary = 1991)	-
	Sterling name: 1x - nontribusq	
	Intage: String number: String address: Intalary;	
	Slring number	
	String address:	
-	Int ralary,	
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	public void print Nalary () &	
4	System. out. printin (Adary)	
	of 1 2 1 and manher	
	Claus Employee extends member &	
	Oligna Americalization!	
	Studing Specialization: Page No. 15	
21		

(Saathi)

Date / /
1 10
Claus manager extends member
\$
String department
S : Ec 70,00,000 11 8 5 1 1000 11
Clour from
public Statio vold main (Abring ETang
public Statio void moun (Aloung Lang
ant cooling (aim, n)
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@ number = "986 m + 2007;
D. adyen = "XUZXYZ
8. 10099 12811
e specialization : "xyzxyz"
1 repair to the second of the
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m. agu = 28; prole
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m. address = x xy20cy2"1
m. Salany = 1281;
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