		N. N.		
COMMON HALF	YEARLY EXAM	NATION - DECEN	IBER 2019	
COMMITTEE TO THE	Standard			
PAR		PUTER SCIENCE	met (ff)ncenin (ff)	
Time Allowed: 3.00 Hours	自由の内容の自然利用が行うという。		Maximum Marks: 70	
Instructions: 1. Checkt		for fairness of printi	ng. If there is any	
lack of	fairness inform	the Hall Superviso rite and underline	Illilliediately.	
diagrar	ns.	**************************************	a) data functions	
	PART		goldaviji arijev 6	
Note: i) Answer all t	he questions.	Alban J. D. Salwallol	15×1=15	
ii) Choose the	nost appropriate a	inswer from the giv	en four alternatives	
and write th	e option code and	the corresponding	answer.	
1) Which is the mai	n component used i	n First Generation?	traffic is	
a) Microprocesso		b) Transistors		
a) Vacuum tuhes		d) Integrated circuits		
2) Which is a colle	ction of wires used	for communication	between the internal	
components of a		Ministration and a	Note: Answer any 6 que	
a) Program counter		b) BUS		
c) Word size	c) Word size		d) Central Processing Unit	
3) Which one of the	e following is system	b) VLC player	18) What is Fault Tole	
a) MS-Word		d) Language Processor		
c) MS-Excel	ntion nuts the com	anuter into a low-pov	wer mode that retains	
4) Which Log Off o	rams and open wing	lows in computer mer	mory for a super-quick	
restart?	and open mile	Tunctions of the	ZZ) What are the mai	
a) Sleep	b) Lock	c) Log Off	d) Restart	
5) Which are name	The second secon	data?	An interest interest in a second for	
a) Control Flow	b) Algorithm	c) Variables	d) Functions	
6) Suppose u, v =	5, 10, before the a	ssignment. What are	the values of u and v	
after the seque	nce of assignments	?	Notes Ago well by six as	
u:=v+10		11,20	प्रसारक होती से एक	
v:=u+10		at attack to packs as	2606 06 101 101	
a) u, v = 10, 10	b) u, v = 30, 1	0 c) u, v = 20, 10	d) u, v = 20, 30	
7) Which is the ke	y to construct and	to reason about itera	d) Decomposition	
a) Loop invaria	nt b) Composition		d) Decomposition	
		extractor operator in c) < >	30) Write about (braun	
a) <<	b) >>		31) Ust the characteri	
	es the following loop	Stranged o son	32) Write hote director	
for (int i=2; i<=		to be kept 6 (and wh	anold) 33 half the reg (blons	
enalor over8 (sing.	b) 4	on the off of the section	encitations entited in CE	

	2 HON , DECEMBER 2019	HMAXE YURAS	XI - Computer Science			
10)	10) Which is a multiway branch statement in C++?					
	a) continue b) switch c) break d) while					
	cin>>n[3]; to which element does this statement accept the value?					
COL	a) 3 b) 2 c) 5 d) 4					
12)) Which of the following is a user defined data type?					
	a) char b) float c) class d) int					
13)	The variable declared inside the class are known as data members and the functions are known as					
) data functions b) member functions					
	c) value functions d) private functions					
14)	Which one of the following C++ operator can be overloaded?					
F3%	a) + b) ?: c) ::		d) sizeof			
15)	A computer network security that monitors and controls incoming and outgoing					
,	traffic is	11 1921 1191001				
	a) Cookies b) Worms	c) Firewall	d) Virus			
	a in threatered endings		esales mulios 4.6			
ir it a	PART	-II	MONDOHOS & SUNDHIWA (S.			
Note: A	Answer any 6 questions. Question	No. 24 is compu	llsory: 6×2=12			
16)	Write note on warm booting.					
17)	Write short note on HDMI. T. Parkunan					
18)	What is Fault Tolerance?					
19)	Write a short note on recursion.					
20)	Write short note on HDMI. What is Fault Tolerance? Write a short note on recursion. What is the use of setw() format manipulator? Write note on conditional operator in C++. T. Parkuray PCI Asst. in CS, MHSS, Chengam.					
21)	Write note on conditional operator in C++.					
22)	What are the main functions of the constructor?					
23)	What is meant by encryption and decryption?					
24)	What is meant by nested structure? Give an example.					
1	c) Variables . d) Functioner.	natinopia i				
Wisob	ne o to abulev on the service PART-	III and should be	T = V av sappont & 5			
Note: A	inswer any six questions. Questio	n No. 33 is com	pulsory: 6×3=18			
25)	a) What is wordlength?		0814V=84			
	b) What is bit?		- 1.01 PO P/7/ 1			
	Write note on various types of ports in computer.					
	7) List the functions of Windows Operating System.					
The state of the s	Write about notations for algorithms.					
29)	9) What is string literal? Give an example.					
	Write about default argument in C++ functions with example.					
31)	List the characteristics of destructors.					
Fillian and Parket	Write note on TSCII.					
33)	List the restrictions to be kept in mind	d while implement	ring operator overloading.			

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                                    PART-IV
                                                                           5×5=25
Note: Answer all questions.
    34) a) Write in detail about the characteristics of microprocessor.
                                     (OR)
        b) i) What is algorithm?
           ii) Explain the following principles and techniques for designing algorithms.
               (A) Specification (B) Abstraction
               (C) Composition (D) Decomposition
    35) a) i) What is type conversion in C++?
            ii) Explain types of conversions with suitable example.
                                      (OR)
        b) Explain about if, if ...... else and nested if statements in C++ with syntax
            and example.
    36) a) Write a C++ program to find sum of the series:
            S = 1 + x + x^2 + \dots + x^n
                                      (OR)
         b) Write in detail about the following C++ functions with general form and
            suitable example.
                                                        (iii) strcpy()
                                   (ii) isdigit()
            (i) isalnum()
                                   (v) strcat()
            (iv) strcmp()
    37) a) Explain the main features of object oriented programming with its advantages
            and disadvantages.
                                      (OR)
         b) Write the output for the following C++ program.
            Assume the values for age as 23, height as 161.5 and weight as 45.
             #include<iostream>
             using namespace std;
             struct student
                int age;
                float height, weight;
             }obj;
             int main()
                      cout << "\nEnter the age:";
                      cin>>obj.age;
                      cout<<"\nEnter the height:";
                      cin>>obj.height;
                      cout << "\nEnter the weight:";
                      cin>>obj.weight;
                      cout << "\nYour details:";
                      cout<<"\nAge:"<<obj.age;
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               cout<<"\nHeight:"<<obj.height;
               cout << "\tWeight: " << obj.weight;
               '34)' a) Write in detail about the characteristics of mucro; or
38) a) i) Explain the types of inheritance.
 ii) What are the points to be observed while defining the derived class?
                          (OR)
   b) Debug the given C++ program to get the following output:
                                  35) a) I) What is type conversion in C++?
       Output
       The width of the box is :20
       The length of the box is:67
       Program ) ni stnements il betsen bns es
       #include<stream>
       using namespace std: 2012 and to must brill of mistpore
       classes Box
    b). Write in detail about the following C++ functions with general form and
               double width;
               public::
                     double length; (11551)2 (V)
    sinsybs all int printWidth() believed to be do to be used mem and melays (s
                     cout<<"\nThe width of the box is:"<<width;
      cout<<"\nThe length of the box is:"<<length;
               void setWidth(double w, !);
       void Box?:setWidth(double w, double I)
               width=w;
               length=1;
       int MAIN()
               Box obj;
               b.setWidth(67.0, 20.0);
               b.print Width();
               exit 0;
```