Nutan Maharashtra Vidya Prasarak Mandal's

NUTAN MAHARASHTRA INSTITUTE
OF ENGINEERING AND TECHNOLOGY

Under Administrative Support - Pimpri Chinchwad Education Trust

ESTD : 1906

Approved by AICTE	Accredited by NAAC	Affiliated to SPPU

"Samarth Vidya Sankul", Vishnupuri, Telegaon Dabhade, Taluka Maval, District Pune - 410507

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Date :29/12/2019

Ref. No.:-NMIET/E&TC/2019-20/ 48

To,
Mr. Bhushan Attarade,
 Pune

Subject:-Thanks Giving Letter

Dear Sir,

It is my proud privileged to express my sincere thanks for extending your valuable support.

I am grateful to you for hands on workshop of **"C, C++"** from 26 Dec. to 29 Dec. 2019 at our campus.

I am quite confident that our students will be highly benefitted by your valuable inputs.

I hope to find more such opportunities in near future.

Thanking You.

Prof. Neeta Karhadkar

HOD(E&TC), NMIET

H.O.D.
Dept. of E & TC
N.M.I.T. Talegaon

Recieved
Attarade :-

Principal
Nutan Maharashtra Institute
of Engg. & Technology
"Samarth Vidya Sankul" Vishnupuri
Telegaon Dabhade, 410507

Date :29/12/2019

Ref. No.:-NMIET/E&TC/2019-20/47

To,
Ms. Anjum Pathan
Esparse Matrix Solutions Pvt. Ltd,
 Pune

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Principal
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of Engg. & Technology
"Samarth Vidya Sankul" Vishnupuri
Talegaon Dabhade, 410507

		Record No.: ACDM/R/
	Nutan Maharashtra Vidya Prasarak Mandal's	Revision: 00
	Nutan Maharashtra Inst. of Engg. & Tech.	Date: 15\06\16

Workshop Feedback Form

Department: E&TC Engg.   Academic Year: 2019 - 2020   Semesters: II

Workshop: C, C++ workshop   Date: 29\12\19

(1 = insufficient - 5 = excellent)

1) What is your overall assessment of the event?

    1   2   3   —4   5

2) The content of the workshop accurately reflected the description given in the announcements

    1   2   3   4   5

3) I gained a good understanding of the subject matter.

    1   2   3   4   5

4) The program and worked examples helped me understand the subject matter.

    1   2   3   4   5

5) I feel confident I can apply what I learned in the workshop to future activities.

    1   2   3   4   5

6) Facility and arrangements were adequate

    1   2   3   4   5

7) The trainer explained the subject matter clearly and was easy to follow.

    1   2   3   4   5

8) The trainer presented the material in an interesting and engaging manner

    1   2   3   4   5

9) Do you want to attend more such lectures on advance technologies?

    1   2   3   4   5

10) Any comments for future improvements?

Need such kind of industry oriented workshop. Thank you for organizing this workshop.

Principal
Nutan Maharashtra Institute
of Engg. & Technology
"Samarth Vidya Sankul" Vishnupuri
Talegaon Dabhade, 410507

E & T C
Engineering

$$\frac{2A}{30}$$

eSparse Matrix Solutions Pvt. Ltd.
MCQ Test on C Programming

Time: 30 Minutes
Total Questions: 30

Date: 23\12\19

Marks: 30

1. A pointer is
(A) A keyword used to create variables
(B) A variable that stores address of an instruction
(C) A variable that stores address of other variable. ✓
(D) All of the above.

2. In C, if you pass an array as an argument to a function, what actually gets passed?
(A) Value of elements in array
(B) First element of the array
(C) Base address of the array
(D) Address of the last element of array.

3. How will you print \n on the screen?
(A) printf("\n");
(B) echo\\n
(C) printf('\n');
(D) printf("\\n"); ✓

4. In which stage the following code #include<stdio.h> gets replaced by the contents of the file stdio.h.
(A) During editing
(B) During linking.
(C) During execution
(D) During preprocessing. ✓

5. Write down different storage class specifiers in C?
Ans: auto, register, static, extern

6. How will you free the allocated memory ?
(A) remove(var-name);
(B) free(var-name); ✓
(C) delete(var-name);
(D) dalloc(var-name);

7. What is the similarity between a structure, union and enumeration?
(A). All of them let you define new values
(B). All of them let you define new data types ✓
(C). All of them let you define new pointers
(D). All of them let you define new structures

8. Pointer variable is declared using preceding _____ sign
(A) &
(B) %
(C) >
(D) * ✓

9. Specify the 2 library functions to dynamically allocate memory?
(A) malloc() and memalloc()
(B) alloc() and memalloc()
(C) malloc() and calloc() ✓
(D) memalloc() and faralloc()

10.In order to fetch the address of the variable we write preceding _____ sign before variable name.

(A)Ampersand   (B)Percent   (C)Comma   (D)Asteriks

11. What is output of below program?

```
int main(){
const int a = 10;
printf("%d",++a);
return 0;
}
```

(A) 11 (B) 10   (C) Compilation Error(D) 0

12. Library function pow() belongs to which header file?

(A) mathio.h(B) math.h(C) square.h(D) stdio.h

13. Address stored in the pointer variable is of type _____ .

(A)Integer (B)Array (C)Character (D)Floating.

14. Consider the 32 bit compiler. What will be the size of integer pointer variable?

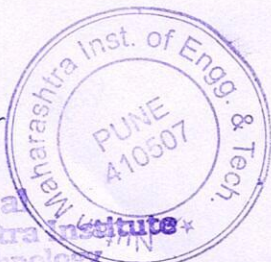(A)2 Bytes   (B)6 Bytes   (C)10 Bytes   (D)4Bytes

15. What is the output of below program?

```
int main()
{
int i;
for(i = 0,i<5,i++)
{
printf("Hello");
}
 return 0;
}
```

(A) Hello (printed5times)(B) Compilation Error

(C) Runtime Error   (D) Hello (printed 4 times)

16. Which of the following is executed by Preprocess?

(A) #include<stdio.h>   (B) return0   (C) void   (D) None of above

17. Is the following statement a declaration or definition extern int i;

(A) Declaration   (B) Definition

18. What is the output of below program?

```
void main()
{
    int k;
    for (k = -3; k < -5; k++)
printf("Hello");
}
```

(A) Hello (B) Run time error (C) Nothing (D) Infinite hello

19. What is sizeof() in C?

(A) Operator   (B) Function   (C) Macro (D) None of these

20. In C, Dynamic memory allocation happens on stack?

(A) True (B) False

21. Specify the 2 library functions to dynamically allocate memory?

(A). malloc() and memalloc()   (B.) malloc() and memalloc()
(C.) malloc() and calloc() (D.) memalloc() and faralloc()

22. Which of the following is not a valid variable name declaration?

(A.) int _a3; (B.) int a_3;   (C.) int 3_a;   (D.) int _3a

23. All keywords in C are in?

(A.) Lower Case letters   (B.)Upper Case letters
(C.) Camel Case letters   (D.)None

24. Which of the following is true for variable names in C?

(A.) They can contain alphanumeric characters as well as special characters.
(B.) It is not an error to declare a variable to be one of the keywords (like goto, static)
(C.) Variable names cannot start with a digit.
(D.) Variable can be of any length.

25. Which is valid C expression?

(A.)int my_num = 100,000;
(B.) int my_num = 100000;
(C.)int my num = 1000;
(D.) int $my_num = 10000;

26. Find output of the following program ?

```
int main()
{
    char str[] = "Smaller";
    int a = 100;
printf(a > 10 ? "Greater" : "%s", str);
    return 0;
}
```

(A)smaller (B) Compiler Error(C) Greater (D)100

27. What is the output of the below program

```
int main()
{
    int i = 0;
    for (i++; i == 1; i = 2)
printf("This is for loop\n ");
}
```

(A) Compilation Error(B)Infinite Loop
(C)This is for loop.   (D)This is for loop (2 times)

28. C preprocessor is conceptually the first step during compilation.

(A). True   (B). False
(C). Depends on the compiler
(D). Depends on the standard

29. Which of the following is not a valid variable name declaration?

(A). float PI = 3.14;   (B). double PI = 3.14;
(C). int PI = 3.14;   (D). #define PI 3.14.

30. When a C program is started, OS environment is responsible for opening file and providing pointer for that file?

(A). Standard input   (B.)Standard output
(C.) Standard error   (D.)All of the mentioned

16
30

eSparse Matrix Solutions Pvt. Ltd.
MCQ Test on C++ Programming

Time: 30 Minutes
Total Questions: 30

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1. Which of the following is not a type of constructor?
(A) Copy constructor   (B) Friend constructor
(C) Default constructor (C) Parameterized constructor

2. Which of the following statements is correct?
(A) Base class pointer cannot point to derived class.
(B) Derived class pointer cannot point to base class.
(C) Pointer to derived class cannot be created.
(D) Pointer to base class cannot be created.

3. Which of the following is not the member of class?
(A) Static function (B) Friend function   (C) Const function   (D) Virtual function

4. Which of the following term is used for a function defined inside a class?
(A) Member Variable   (B) Member function
(C) Class function   (D) Classic function

5. How many instances of an abstract class can be created?
(A) 1 (B) 2 (C) As many you want (D) 0

6. Which of the following cannot be friend?
(A) Function (B) Class (C) Object (D) Operator function

7. cout is a/an _____ .
(A) operator (B) Function (C) Object (D) Macro

8. Which of the following concepts provides facility of using object of one class inside another class?
(A) Encapsulation (B) Abstraction (C) Composition (D) Inheritance

9. A Constructor that does not have any parameters is called_____ Constructor.
(A) Custom (B) Default (C) Static (D) Dynamic

10. Which of the following is an abstract data type?
(A) int (B) double (C)string (D)Class

11. Which of the following concepts means wrapping up of data and functions together?
(A) Abstraction (B) Encapsulation (C) Inheritance (D) Polymorphism

12. Which of the following operator is overloaded for object cout?
(A)>> (B) << (C) + (D)=

13. Is it compulsory to write constructors and destructors in C++?
(A) Yes   (B) No

14. Which of the following is not a type of inheritance?
(A) Multiple (B) Multiple (C) Distributive (D) Hierarchical

15. Which of the following keyword is used to overload an operator?
(A) Overload (B) Operator (C) Friend (D) Override

16. What will happen if a class is not having any name?
(A) It cannot have a destructor. (B) It cannot have a constructor.
(C) It is not allowed. (D) Both A and B

17. Which inheritance type is used in the class given below?
class A : public X, public Y
{}

(A) Multilevel inheritance (B) Multiple inheritance
(C) Hybrid inheritance   (D) Hierarchical Inheritance

18. Which of the following is an invalid visibility label while inheriting a class?
(A)public   (B) private (C) protected(D)Friend

19. Which of the following access specifier is used as a default in a class definition?
(A) Protected   (B) Public (C)Private (D) Friend

20. Which of the following is used to make an abstract class?
(A) Declaring it abstract using static keyword.
(B) Declaring it abstract using virtual keyword.

(C) Making at least one member function as virtual function.

(D) Making at least one member function as pure virtual function.

21. Wrapping data and its related functionality into a single entity is known as _____

(a) Abstraction   (b) Encapsulation

(c) Polymorphism   (d) Modularity

22. How structures and classes in C++ differ?

(a) In Structures, members are public by default whereas, in Classes, they are private by default

(b) In Structures, members are private by default whereas, in Classes, they are public by default

(c) Structures by default hide every member whereas classes do not

(d) Structures cannot have private members whereas classes can have.

23. Which concept allows you to reuse the written code?

(a) Encapsulation   (b) Abstraction

(c) Inheritance   (d) Polymorphism

24. C++ is _____

(a) procedural programming language

(b) object oriented programming language

(c) functional programming language

(d) both procedural and object oriented programming language

25. How access specifiers in Class helps in Abstraction?

(a) They does not helps in any way

(b) They allows us to show only required things to outer world

(c) They help in keeping things together

(d) Abstraction concept is not used in classes

26. What does modularity mean?

(a) Hiding part of program

(b) Subdividing program into small independent parts

(c) Overriding parts of program

(d) Wrapping things into single unit

27. Which of the following feature of OOPs is not used in the following C++ code?

class A

{

    int i;

    public:

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```
    void print(){cout<<"hello"<<i;}
}

class B: public A
{
    int j;
    public:
    void assign(int a){j = a;}
}
```

(a)Abstraction(b)Encapsulation (c) Inheritance(d) Polymorphism

---

28.Which of the following permits function overloading on c++?
(a)type   (b)number of arguments
(c)type & number of arguments   (d) number of objects

---

29. If a class contains static variable, then every object of the class has its copy of static variable.
(a) True(b) False

---

30. Which of the following operator is used to release the dynamically allocated memory in CPP?
(a) remove(b) release
(c) delete(d) All of the above