**2008 – SIKKIM MANIPAL UNIVERSITY OF HEALTH MEDICAL & TECHNOLOGICAL SCIENCE**

**M.C.A COMPUTER APPLICATION**

**PROGRAMMING C**

**TIMES-3 HOUR**
**MARKS-140**

**Sub Co:Mc 0061**

**Notes:**

1. Question paper is divided into three parts i.e. Part A, Part B, and Part C.
2. Part A consist 40 questions of 1 mark each
3. Part B consist 20 questions of 2 marks each.
4. Part C consist 15 questions of 4 marks each.
5. All questions are compulsory Part A (One Mark Question)

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1) C Program must have –

a. Start () function
b. Begin() function
c. Main() function
d. First() function

2) int a[]={5,4,3,2,1} What is the value of a[3]?

a. 2
b. 3
c. 4
d. 1

3) float a[10]; What is the size of the array?

a. 10
b. 20
c. 30
d. 40

4) In C a variable name cannot contain

a. Blank Space
b. Underscore
c. Letter
d. Digits

5) Array is :

a. Primary data type
b. Homogeneous data type
c. Pointer data type
d. Heterogeneous data type

6) Array index can be started from 1?

a. Yes
b. No

7) To accept 100 different values into the array we require:

a. Loop
b. If condition
c. Function
d. Structure

8) Which of the following is odd one out

a. +
b. –
c. /
d. **

9) Pointer holds

a. Value of variable
b. Address of variable
c. Value and address of variable
d. Always null

10) An integer constant in C must have

a. At least one digit
b. At least one decimal point
c. A comma along with digits
d. Digits separated by commas

11) Backslash character constant

a. Started with single cote
b. Started with backslash
c. Started with n
d. Non of the above

12) How many operators are there in C Language

a. 8
b. 9
c. 10
d. 7

13) How many bits are required to represent double data type in memory

a. 32
3 | P a g e
b. 16
c. 10
d. 8

14) What will be the output of the expression: Printf("%d", „1?);

a. 1
b. 48
c. 49
d. 0

15) The function getchar() is used to accept

a. One character value at a time
b. Two character value at a time
c. Ten character value at a time
d. Many character value at a time

16) A structure brings together a group of

a. items of the same data type
b. related data items and variables
c. integers with user defined names

d. floating points with user defined names

17) EOF is a

a. Macro
b. Function
c. Variable
d. Constant

18) scanf() can able to accept

a. Only character types of values
b. Any types of values
c. Only numeric types of values
d. Only string types of values

19) If statement is a

a. Conditional Statement
b. Assignment Statement
c. Looping Statement
d. Arithmetic Statement

20) goto statement is only essential because

a. to exit from current loop
b. to exit from program
c. to exit from more than one loops
d. to exit from file

21) In switch statement break is used :

a. to break from loop
b. to break from case
c. to break from default case only
d. all of the above

22) do -while is the loop where

a. condition checks at end of the loop
b. condition checks at beginning of the loop
c. condition checks within the loop body
d. condition never checks

23) while is the loop where

a. condition checks at end of the loop
b. condition checks at beginning of the loop
c. condition checks within the loop body
d. condition never checks

24) for(;;)

a. it is a finite loop
b. it is a infinite loop
c. the control never enter into the loop body
d. None of the above

25) Function prototype declaration is

a. optional for good program

b. compulsory for good program
c. frequently required for good program
d. never required for good program

26) In function call by value

a. transfers value only
b. transfers both value and address
c. transfers either value or address
d. transfers none of the above

27) By default function returns is

a. float
b. integer
c. double
d. void

28) Built –in function can be used in a program

a. only one time
b. only two times
c. number of times
d. only through user defined function

29) In the recursive function

a. We are telling “what to do?”
b. We are telling “How to do?”
c. We are telling “Not to do.”
d. We are telling “Why to do?”

30) Visibility of a variable means

a. How much the capacity of the variable?
b. How much the rest of the program can access the variable?
c. How many times the variable is used?
d. How many times the value is changed?

31) The auto storage class

a. keeps value within the block
b. destroys value within the block
c. copies value to global variable
d. transfer value to the other function

32) If we include header files in the program , then

a. It compiles more number of lines
b. It compiles same number of lines
c. It complies less number of lines
d. None of the above.

33) In language C ,variable number of signature is

a. not possible
b. possible
c. possible for some special function
d. Possible for main function only

34) In language C , Array index starts with

a. -1
b. 0
c. 1
d. 2

35) For integer array, max number that can store into one cell

a. 32,768
b. 65,535
c. 100000
d. 1

36) For character array, how many character(s) can store in a single cell

a. One Character
b. Two Characters
c. More than Ten Characters
d. More than Hundred Characters

37) In case of pointer operation & is called

a. Value of
b. Address of
c. Data of
d. None of the above

38) Structure is a

a. Fundamental Data Type
b. User defined Data Type
c. Homogeneous Data Type
d. None of the above

39) To create structure we use the key word

a. str
b. struc
c. struct
d. structure

40) Dynamic memory allocation means

a. we can allocate disk memory at any time
b. We can allocate main memory at any point of time
c. We can reallocate static memory at any time
d. None of the above

Part B (Two Mark Question)

41) What will be the value of d (assume d to be a float) after the operation d=2/7.0?

a. 0
b. 0.2857140
c. 0.3343334
d. 1.0010232

42) The expression, a=30*1000+2893 ; evaluates to

a. 32768
b. – 32643

c. 113983
d. 0

43) If a in an integer variable, a=5/2; will return a value

a. 2.5
b. 3
c. 2
d. 0

44) The expression x= 4+2%-8

a. 6
b. -6
c. 0
d. 8

45) To increment the value of i by 2 only, we can?t user the expression

a. i+=2;
b. i+++;
c. i=i+2;
d. a=i+2; i=a;

46) What will be the value of i after execution of the expression: int i=2; i+=i++ + ++i;

a. 10
b. 12
c. 16
d. 14

47) Which of the following statement is wrong

a. x+5=y;
b. x=x+5;
c. x=y;
d. x=5;

48) What is the value of the expression: A=(int)3.9 /(int)2.3

a. 2
b. 1
c. 3
d. 0

49) What will be the value of the expression: x=?1?+?2?+?3?; x/=3; printf("%c",x);

a. 2
b. 3
c. 4
d. 1

50) What will be the output of the expression: int a=2345; printf("a=%2d",a);

a. 2345
b. 23
c. 45
d. 0

51) What will be the output : int a, x=10,y=20; a=!(x>y)?x:y

a. 20
b. 10
c. 0
d. 1

52) What will be the output of the following expression
void main() { int a=1; if(a=8) printf("Good"); else if(a=1) printf("Fair"); else printf("Bad"); }

a. Good
b. Fair
c. Bad
d. None of the above

53) How many times the loop will execute?
for (i=100;i<=200;i++) { i--;}

a. 100 times
b. 200 times
c. 101 times
d. infinite number of times

54) What will be the output
void main() { int x=5 for(;x<=10;x++) printf("%5d",x+1); }

a. 5 6 7 8 9 10
b. 6 7 8 9 10 11
c. 5 7 9 11 13 15
d. 6 7 8 9 10 13

55) What will be the output :
void main() { void function(void); function(); function(); function();
} void function(void) { static int i=1; printf("%5d",i++); }

a. 3 3 3
b. 1 2 3
c. 1 1 1
d. 2 2 2

56) What will be the output
void main () { char name[]="Arindam"; int i; static int x=0; while(name[x]!=?\0?) { for(i=0;i<=x;i++)
printf("%c",name[i];) printf("\n"); x=i; i=0; } }

a. "Arindam" in Triangular Pattern
b. "Arindam" in Horizontal Linear Pattern
c. "Arindam" in Vertical Linear Pattern
d. None of the above

57) What will be the output of the program?
void main() { int a[5]={1,2,3,4,5},*pt; pt=a; pt++; printf("%d",++*pt); }

a. 2
b. 3
c. 4
d. 1

58) With a single FILE pointer how many file(s) can be opened at a time?

a. 1 Files
b. 2 Files
c. 3 Files

d. Many Files

59) Find the output
#define S(X) X*X #define S(X) (X*X) If X=4 then the value of S(X) will be ?

a. 16 16
b. 16 4
c. 4 16
d. 4 4

60) The expression (a+b)/3 is in

a. Infix Notation
b. Prefix Notation
c. Postfix Notation
d. Polish Notation

Part C (Four Mark Question)

61) What will the value of root
double a=2,b=2,c=2,dis=10; dis=b*b-4*c; root=-b-sqrt(dis)/(2*a);

a. 10
b. 0
c. Syntax error
d. Domain error

62) Determine the value of the logical expressions if a=5 ,b=10 and c= -6
(a/2.0==0.0 && b/2.0!=0.0)||c<0.0

a. 0
b. 1
c. 2
d. 3

63) What is the output of the following program?
Void main() { int m; for(m=1;m<5;m++); printf("%d\n",(m%2)?m:m*2); }

a. 5
b. 10
c. 0
d. 1

64) How many times the loop will execute
int a=10; While(i<=10) { printf("%d",i++); i--; }

a. One times
b. Two times
c. Infinite number of times
d. Never enter into the loop

65) Pick up the correct answer
While(…) { While(…) { while(…) { Break; } } }

a. It will break from current loop
b. It will break from second loop
c. It will break from all the loops
d. It will break from program

66) What is the value of x;
int a,*p; a=10; p=&a; x=*(&(*p))

a. 10
b. 20
c. Address of a
d. Address of p

67) What is the value of x
int a[]={5,6,7,8,0},*p; p=a; int x=*p++;

a. 5
b. 6
c. 7
d. 8

68) What is the value of X
Union { Struct student { int roll; } Struct { float salary;} }people; X= sizeof(people);

a. 2
b. 3
c. 4
d. 0

69) Pick the correct answer
FILE *pt; pt=fopen("Filename","r"); function returns pt=NULL;

a. The function cannot find the file
b. The function found the file but unable to write
c. The function found the file but unable to append
d. The function able to open the file

70) What is the value of A
#define N 10 #define N1 (R) (N*2+R) A=N1(4)

a. It is correct and returns 20
b. It is not correct and returns error
c. It is correct and returns 24
d. It is correct and returns 25