



BIT SINDRI
Mid Semester Examination – 2018
Semester - 2nd (Section – A,B,E,F,G,H)
Subject - PPS

Time : 1:30 Hour

Max Marks - 20

NOTE: 1. All Questions carry equal marks.
2. Solve any five Questions.

Que 1: Write a program to accept a number from user and check given no. is prime or not?

or

Write a program to accept a year from user and check the given year is leap year or not?

(4)

Que 2: You have been given 4 matrix(2D int array), A:3*3, B:3*3, sum:3*3, sub:3*3.

Write a program to add and subtract two matrix(A&B) and store it in matrix sum and sub respectively.

(4)

Que 3: Explain Insertion sort with example.

or

Explain Selection sort with example.

(4)

Que 4: Fill in the blanks:

a. There are _____ keywords in C language.

b. _____ is the father of C programming.

c. An array is collection of _____ elements/datatype.

d. A string is usually terminated by _____.

(4)

Que 5: i) You have been given an array of 9 integer

9, 6, 5, 0, 8, 2, 7, 1, 3

(1.5)

a.) Using insertion sort(Ascending) the numbers will be

b.) Using bubble sort(Ascending) the numbers will be

+

1.5)

a1) After 1st iteration : _____

b1) After 1st iteration : _____

a2) After 2nd iteration : _____

b2) After 2nd iteration : _____

a3) After 3rd iteration : _____

b3) After 3rd iteration : _____

ii.) choose one correct ans

```
#include<conio.h>
```

```
#include<stdio.h>
```

```
void main(){
```

```
char str1[]="BIT";
```

```
char str2[] ="BIT";
```

```
if(str1==str2)
```

```
printf("sindri");
```

```
else
```

```
printf("mesra");
```

```
getch();}
```

a.) sindri

b.) mesra

c.) syntax error

d.) run time error

e.) None of the above

(1)

Que 6: Explain any 4 string library functions with example.

(4)

Que 7: Find the output:

i.) #include<conio.h>

```
#include<stdio.h>
```

```
void main(){
```

```
char a[]={ '7','8','9',0};
```

```
char b[]={ '9','8','7','\0','7','8','9'};
```

```
printf("%s",a);
```

```
printf("%s",b);
```

```
getch();
```

```
}
```

ii.) #include<conio.h>

```
#include<stdio.h>
```

```
#include<string.h>
```

```
void main(){
```

```
char a[]="BITSindri\n\n\n";
```

```
char b[]="BITSindri\0\0\0\0\0";
```

```
printf("%d\t%d\n",sizeof(a),strlen(a));
```

```
printf("%d\t%d\n",sizeof(b),strlen(b));
```

```
getch();
```

```
}
```

(4)

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