Indian Institute of Technology Kanpur
ESC101 Fundamentals of Computing, 2018-19-a

Name: **ANSWER KEY**

Roll:

Sect:

MINOR QUIZ

W8P*

P1

```c
#include <stdio.h>
int main(){
    int x = 'I';
    char y = 'T';
    printf("%c", (char)x);
    printf("%c", x);
    printf("%c", y);
    printf("%c", x+2.0);
    return 0;
}
```

Q1: Which is the incorrect line in this code?
It is supposed to print "IITK" (without quotes).

GOLD SOLUTION
8

MAX MARKS
5

```c
#include <stdio.h>
int main(){
    char c1[4] = "esc";
    char c2[4];
    int i;
    for(i = 0; i < 3; i++){
        c2[i] = c1[2-i] - 'a' + 'A';
    }
    c2[3] = '\0';
    printf("%s",c2);
    return 0;
}
```

Q2: What is the output of this code?
Note: whitespaces indicated using gray-colored characters as in Prutor

GOLD SOLUTION
CSE

MAX MARKS
5

P2

```c
#include <stdio.h>
int main(){
    char c1[10] = 'esc101', c2[10];
    char i;
    for(i = 0; c1[i] != '\0'; i++)
        if('a' <= c1[i] && c1[i] <= 'z')
            c2[i] = c1[i] - 'a' + 'A';
        else c2[i] = c1[i];
    c2[i] = '\0';
    printf("%s",c2);
    return 0;
}
```

Q1: Which is the incorrect line in this code?
It is supposed to print the name of our course in upper case.

GOLD SOLUTION
3

MAX MARKS
5

```c
#include <stdio.h>
int main(){
    char ch[10] = "facebook";
    char sh[10] = "gamefest";
    int i;
    for(i = 0; ch[i] != '\0'; i++)
        if(ch[i] == 'o')
            for( ; ch[i] != '\0'; i++)
                ch[i] = sh[i];
    printf("%s",ch);
    return 0;
}
```

Q2: What is the output of this code?
Note: whitespaces indicated using gray-colored characters as in Prutor

GOLD SOLUTION
facebest

MAX MARKS
5

P3

```
1   #include <stdio.h>
2   int main(){
3       char c1[5] = "esc";
4       char c2[5];
5       int i;
6       for(i = 0; i < 3; i++)
7           c2[i] = c1[i] - "a" + "A";
8       c2[3] = '\0';
9       printf("%s",c2);
10      return 0;
11  }
```

Q1: Which is the incorrect line in this code?
It is supposed to print "ESC" (without quotes)

```
1   #include <stdio.h>
2
3   int main(){
4       int i;
5       char c1[6] = "HELLO";
6       scanf("%s", c1);
7       printf("%s\n", c1);
8       for(i = 0; i < 5; i++)
9           if('A' < c1[i])
10              printf("%c", c1[i]);
11      return 0;
12  }
```

Q2: What is the output of this code?
The input is "HI" (without quotes)
Note: whitespaces indicated using gray-colored characters as in Prutor

GOLD SOLUTION	GOLD SOLUTION
7	HI¬
	HILO
MAX MARKS	**MAX MARKS**
5	**5**

P4

```
1   #include <stdio.h>
2   int main(){
3       char ch[6] = "1bcde";
4       int i;
5       for(i = 0; i < 5; i++)
6           if(ch[i] >= 'a')
7               ch[i]--;
8           else
9               ch[i] = ch[i] - '1';
10      printf("%s", ch);
11      return 0;
12  }
```

Q1: Which is the incorrect line in this code?
It is supposed to print "0abcd" (without quotes)

```
1   #include <stdio.h>
2   int main(){
3       char str[6] = "abcde";
4       char strReverse[6];
5       int i;
6       for(i = 0; i < 6; i++)
7           strReverse[i] = str[5-i];
8       printf("output:%s", strReverse);
9       return 0;
10  }
```

Q2: What is the output of this code?
Note: whitespaces indicated using gray-colored characters as in Prutor

GOLD SOLUTION	GOLD SOLUTION
9	output:
MAX MARKS	**MAX MARKS**
5	**5**