## PART-B

Write the answer in the space corresponding to the question in the answer sheet. Correct answer = +4 marks.

1. What will be the value returned by calling magic (1,2,3) where magic is given by the following function definition?

```
int magic (int x, int y, int z)
{ return (x < y)
?
  ((y < z) ? y : (x < z ? z : x))
:
  ((x < z) ? x : (y < z ? z : y));
}</pre>
```

2. What will be the value returned by calling strange (99) where strange is given by the following function definition?

```
int strange(int n) {
  if (n > 100) {
    return n - 10;
  }
  else {
    return strange(strange(n+11));
}
```

3. What value is returned by calling fox(3,f) where f and fox are functions defined below?

```
int f(int n)
{ return n*n;}

int fox(int n, int (*func)(int))
{ int i; int s = 0;
  for (i = 1; i <= n; i++)
        s += func(i);
  return s;
}

return strange (100)
```

stronge(99) by (100)

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char \*bizarre(char \*s) {
 char \*p, \*q, tmp;
 int n;

 n = strlen(s); —6
 q = (n > 0) ? s + n - 1 : s;
 for (p = s; p < q; ++p, --q) {
 tmp = \*p;
 \*p = \*q;
 \*q = tmp;
 }

return s;
}

(100)

char \*bizarre(char \*s) {
 char \*p, \*q, tmp;
 int n;

 return s;

 return s;
}

4. What will be the output of the follow-

ing program?

5. What string is returned by calling bizarre("abcdef") where bizarre is given by the following function definition?

printf("%d", A[1][2]);

}