CSCI 1470 CS 1
Fall 2025
Suggested Solution to Final Examination

[Q1]

[1]	C	[2]	D				
[3]	B	[4]	B	[5]	B	[6]	C
[7]	A	[8]	A	[9]	A	[10]	A
[11]	B	[12]	C				

[Q2]

[a]	F	[b]	T	[c]	T	[d]	F	[e]	T
[f]	T	[g]	T	[h]	F	[i]	T	[j]	F

[Q3]

[a]

```
b
bc
ace
gfedcba
```

[b]

```
[1, 2, [3, 4], 5]
2
4
[2, [3, 4]]
9
[3, 4, 20]
9
[3, 4, 20, 33]
```

[Q4]

[1]

```
for i in range(1,12,2):
    print(f"{i} * {i}: {i*i}")
```

[2]

```
count = 0
for s in list_1:
    count += len(s)
print(count)
#   or
print(sum(len(s) for s in list_1))
```

[3]

```
list_1 = ["mouse", "a2", "all", "alright", "allow", "dog"]
result = sum(1 for item in list_1 if item.startswith("al"))
print(result)

# or

result = 0
for item in list_1:
    if item.startswith("al"): result += 1
print(result)
```

[4]

```
result = sum(d[key] for key in d.keys() if key.startswith('a'))
print(result)

# or

result = 0
for key, value in d.items():
    if key.startswith('a'):
        result += value
print(result)
```

[Q5]

[1]

```
def make_dict(in_list):
    return {item:pos for pos, item in enumerate(in_list, 1)}
```

```
# or

def make_dict(in_list):
    result = {}
    for pos, item in enumerate(in_list, 1):
        result[item] = pos
    return result
```

[2]

```
def sum_list_integer(l):
    return sum(sum(item) for item in l)
# or
def sum_list_integer(l):
    result = 0
    for item in l:
        result += sum(item)
    return result
```