

CSCI 1470 CS 1
Fall 2025
Suggested Solution to Mid-Term Examination

[Q1]

[1]	C	[2]	A	[3]	D				
[4]	B	[5]	B	[6]	C	[7]	B	[8]	B
									[9] D
[10]	B	[11]	D	[12]	C	[13]	C	[14]	A
[15]	A	[16]	C						

[Q2]

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

[Q3]

[a] For example:

```
if score >= 90:
    grade = "A"
elif score >= 80:
    grade = "B"
elif score >= 70:
    grade = "C"
elif score >= 60:
    grade = "D"
else:
    grade = "F"
```

[b] For example:

```
match (feature_A, feature_B):
    case (True, "high"):
        return "Strong Positive Interaction"
    case (True, "medium"):
        return "Moderate Positive Interaction"
    case (True, _): # Catches all other cases for True feature_A
        return "Weak Positive Interaction"
    case (False, "high"):
        return "Strong Negative Interaction"
    case (False, "medium"):
        return "Moderate Negative Interaction"
    case (False, _): # Catches all other cases for False feature_A
        return "Weak Negative Interaction"
```

[Q4]

- [a] -50
- [b] True
- [c] 800
- [d] HELLO
- [e] 512
- [f] True
- [g] True
- [h] False
- [i] False
- [j] True

[Q5]

- [1] Hexadecimal: B1
Binary: 10110001
- [2] Decimal: 169
Binary: 10101001

[Q6] [1]

```
count = 1
while count <= 5:
    print(f"square({count}) = {count * count}")
    count += 1
```

[2]

```
for char in text:
    print(char)
```

[3]

```
for num in numbers:
    if num % 5 == 0:
        print(num)
```