These questions refer to the preliminary material and require you to load the skeleton program, but do not require any additional programming.

MARKS **/50**

1. State the name of an identifier for:

   a) A string constant (or variable used as a constant) **[1]**

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   b) A subroutine with two parameters **[1]**

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   c) A subroutine that returns a tuple (more than one value) **[1]**

   .....

   d) A Boolean variable **[1]**

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   e) A parameter that is a list **[1]**

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   f) An integer list **[1]**

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   g) A built-in function called from within the `GetMenuOption` subroutine **[1]**

   .....

   h) The identifier for a user-defined function called from the `GetNextLetter` subroutine **[1]**

   .....

2. State the purpose of each of the following lines in the `GetTransmission` subroutine: **[4]**

```
FileName = input("Enter file name: ")
...
    FileHandle = open(FileName, 'r')
    Transmission = FileHandle.readline(0029
    FileHandle.close()
    ...
```

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3. Describe the purpose of the `While` loop within the `SendReceiveMessages` subroutine. **[2]**

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4. Describe the nature and purpose of the `Dash` data structure in `SendReceiveMessages`. **[3]**

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5. Look at the subroutine `StripLeadingSpaces`. Describe the purpose and use of the variable `FirstSignal`. **[2]**

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6. Describe each of the following lines of code, taken from the `StripTrailingSpaces` subroutine: **[6]**

```
LastChar = len(Transmission) - 1
while Transmission[LastChar] == SPACE:
    LastChar -= 1
    Transmission = Transmission[:-1]
return Transmission
```

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7. Describe the function of the following line from the `SendMorseCode` subroutine: **[3]**

```
Index = ord(PlainTextLetter) - ord('A') + 1
```

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8. Describe the purpose of the `except:` block in the `GetTransmission` subroutine.

   State one situation in which the code in the `except:` block would be executed. **[2]**

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9. The skeleton program begins with a number of constants (or variables used as constants by convention).

   State two benefits of the program being written in this way. **[2]**

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10. The `StripLeadingSpaces` subroutine uses the `[1:]` operation.

    Describe the purpose of the `[1:]` operation and explain how it is used in `StripLeadingSpaces`. **[3]**

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11. Describe each of the circumstances that would lead to the subroutine `ReportError` being called. **[5]**

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12. Describe fully the operation of the `Decode` subroutine if the value of `CodedLetter` is `-..-` **[10]**

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