higher education & training

Department:
Higher Education and Training
REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

NATIONAL CERTIFICATE (VOCATIONAL)

INTRODUCTION TO SYSTEMS DEVELOPMENT

(Second paper)

NQF LEVEL 2

8 December 2023

This marking guideline consists of 8 pages.

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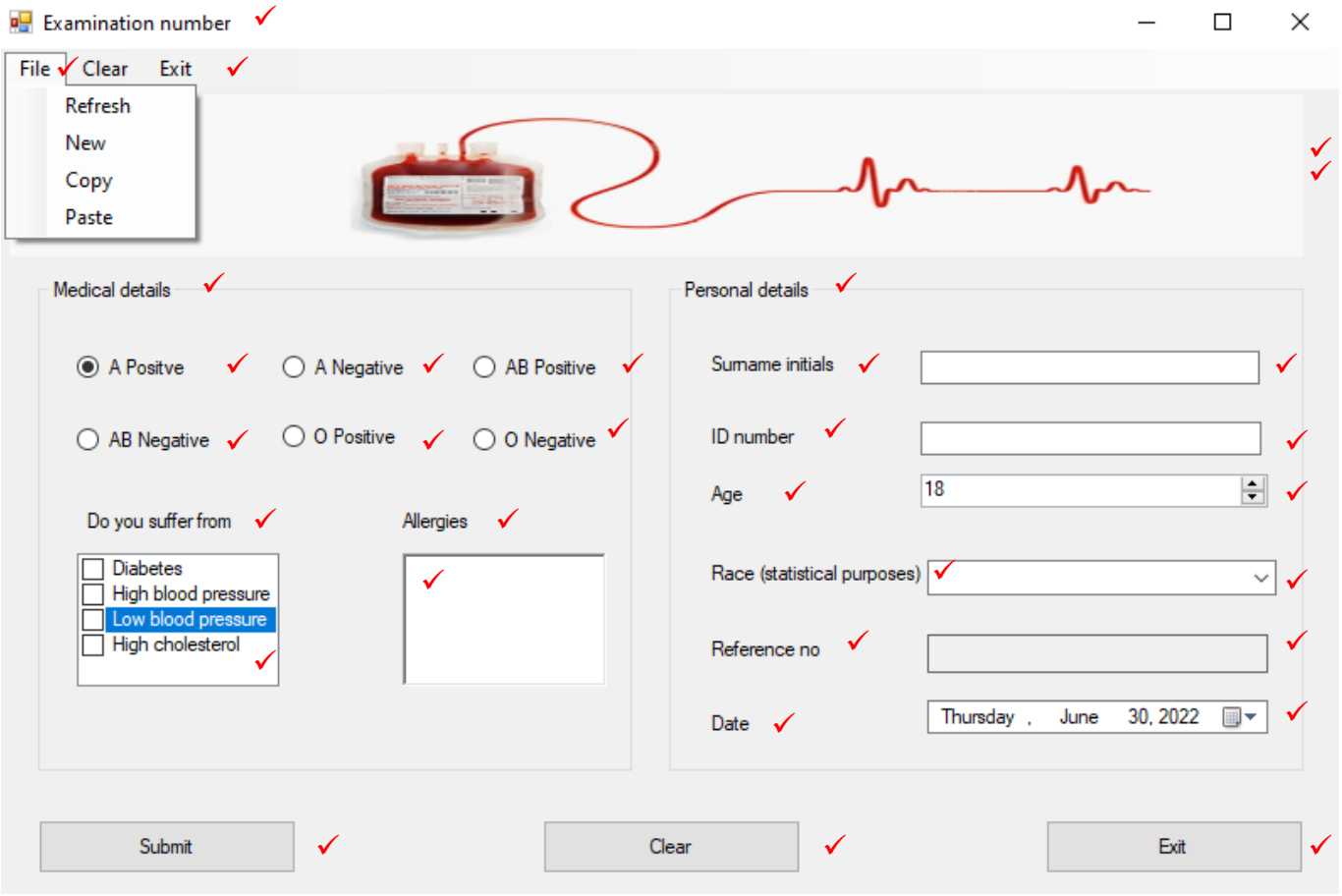
QUESTION 1



1.11 Print the user interface.

[32]

QUESTION 2

2.1 EXAMINATION NUMBER✓ (1)

2.2
```
If cmbRooms.SelectedIndex = 0 Then✓
     intInitialPrice = 1000✓
ElseIf cmbRooms.SelectedIndex = 1 Then✓
     intInitialPrice = 1800
Else✓
      intInitialPrice = 2500✓
End If
```
(5)

2.3 2.3.1
```
strFullName = txtFullName.Text✓
strContact = txtContact.Text✓
checkoutDate = DateTimePicker2.Value✓
```
(3)

2.3.2
```
noOfNights✓ = (checkoutDate - checkinDate)✓. TotalDays.
ToString✓
```
(3)

2.3.3
```
decAmount✓ = intInitialPrice * noOfNights✓
```
(2)

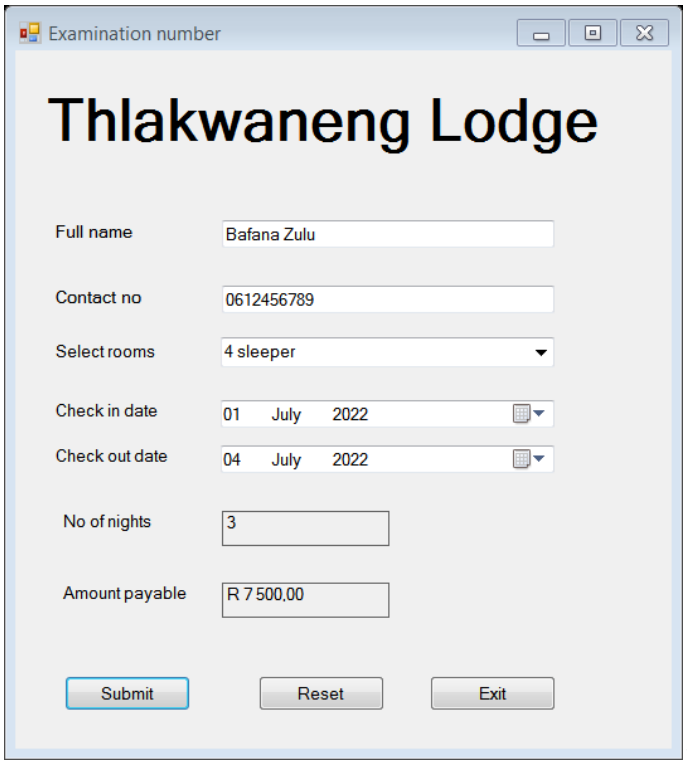
2.3.4
```
If MessageBox.Show✓ (strFullName &✓ " " & " contact no " &
   strContact & " confirm booking", "Confirm",
   MessageBoxButtons.OKCancel✓, MessageBoxIcon.Information)
   = Windows.Forms.DialogResult.OK✓ Then
```
(4)

2.3.5
```
        lblNoOfNights.Text = Math.Round(noOfNights) ✓
        lblAmount.Text = FormatCurrency(decAmount) ✓
Else
        Exit Sub✓
End If
```
(3)

2.4
```
txtFullName.Clear()✓
txtContact.Clear()
cmbRooms.Text = ""✓
DateTimePicker1.ResetText()✓
DateTimePicker2.ResetText()
lblNoOfNights.Text = ""✓
lblAmount.Text = ""
txtFullName.Focus()
```
(4)

2.5
```
Me.Close()✓
```
(1)

2.6



✓✓

2 marks for correct calculations (2)

[28]

QUESTION 3

3.1 EXAMINATION NUMBER✓ (1)

3.2 3.2.1

```
If cmbCurrency.SelectedIndex = 0 Then
    strCurrency = "Brazilian Real"  ✓
    decCurrencyRate = CDec(3.09)
ElseIf cmbCurrency.SelectedIndex = 1 Then
    strCurrency = "Russian Ruble"
    decCurrencyRate = CDec(0.29)    ✓
ElseIf cmbCurrency.SelectedIndex = 2 Then
    strCurrency = "Indian Rupee"
    decCurrencyRate = CDec(0.21)
Else                                ✓
    strCurrency = "Chinese Yuan"
    decCurrencyRate = CDec(2.4)
End If
```
(3)

3.2.2
```
lblCurrencySelected.Text = strCurrency✓
lblCurrencyRate.Text = CStr(decCurrencyRate) ✓
```
(2)

3.3 3.3.1
```
strAddress = rctAddress.Text✓
dDate = dtpDate.Value✓
intDonationAmount = CInt(txtDonationAmount.Text) ✓
```
(3)

3.3.2
```
decAmountConverted✓ = intDonationAmount * decCurrencyRate✓
```
(2)

3.3.3
```
lblAmountConverted.Text =
FormatCurrency(decAmountConverted) ✓
lblSummary.Text✓ = strName & " " & strSurname✓ & " " &
 " residing at: " & vbNewLine✓ & strAddress & vbNewLine &
 " contact no " & strContact & "...thank you for your
donation of " & FormatCurrency(decAmountConverted) ✓ &
" pledged on the " & dDate✓
```
(6)

3.4
```
txtNames.Clear()✓
txtSurname.Clear()
txtContactNo.Clear()
rctAddress.Clear()
dtpDate.Text = ""
txtDonationAmount.Clear()
cmbCurrency.Text = ""
lblCurrencySelected.Text = ""✓
lblCurrencyRate.Text = ""
lblAmountConverted.Text = ""
lblSummary.Text = ""
txtNames.Focus()
```
(2)

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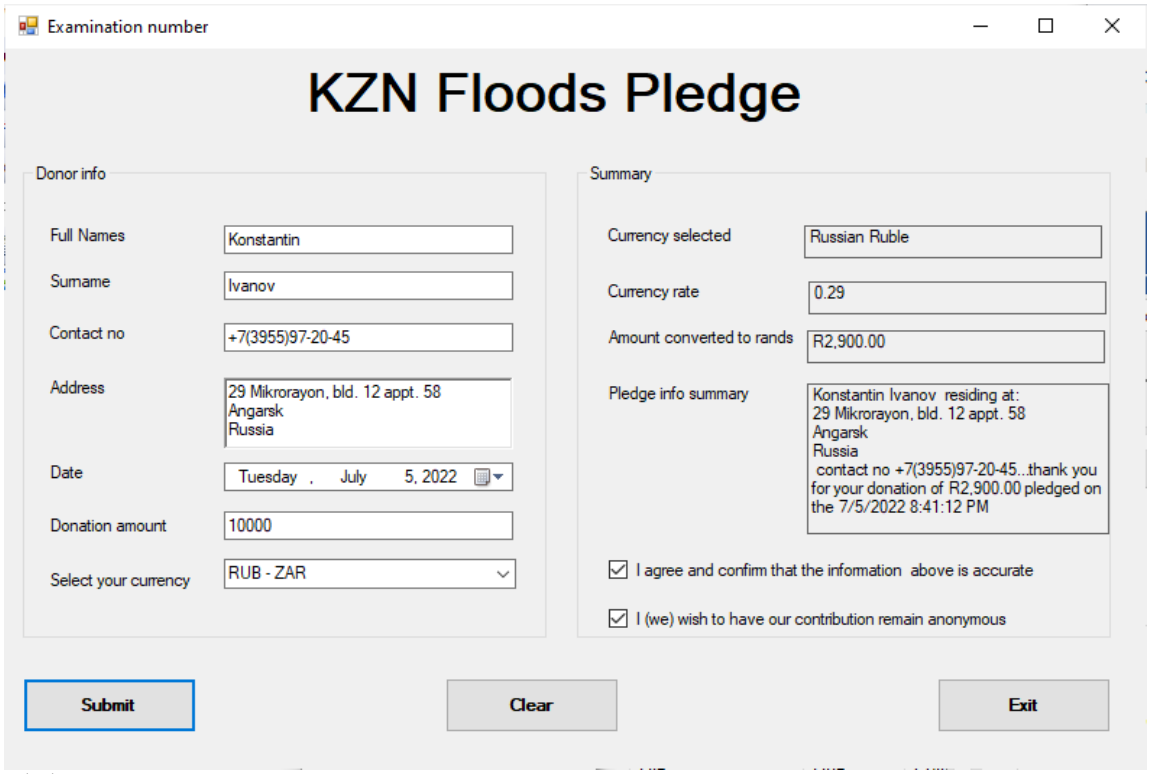
3.5



✓✓ (2)

[21]

QUESTION 4

4.1 EXAMINATION NUMBER✓ (1)

4.2

```
Option Strict On
Public Class Form1
    Dim strSurname As String✓
    Dim lngIDno As Long
    Dim✓ intWeight As Integer
    Dim decHeight As Decimal
    Dim dblBMI As Double
    Dim dblAssessmentBMI As Double
    Dim strReference As String
    Dim strAssessmentResults As String

Private Sub btnAssess_Click(ByVal sender…) Handles btnAssess.Click

   If txtIDno.Text = "" Then
MessageBox.Show✓ ("Enter your ID no", "Error", MessageBoxButtons.OK,
MessageBoxIcon.Error)
      txtIDno.Focus()
      Exit Sub
   End If✓

   If txtIDno.TextLength <> 13 Then
MessageBox.Show("Enter 13 digits", "Error", MessageBoxButtons.OK✓)
      txtIDno.Clear()
      txtIDno.Focus()
      Exit Sub
```

```
    End If

   If txtSurname.Text = "" Then
 MessageBox.Show("Enter surname and initials", "Error",
 MessageBoxButtons.OK, MessageBoxIcon.Error)
      txtSurname.Focus()
      Exit Sub
   End If

  If cmbSportingCodes.SelectedIndex < 0 Then
 MessageBox.Show("Select sporting code", "Error",
 MessageBoxButtons.OK, MessageBoxIcon.Error)
      cmbSportingCodes.DroppedDown = True✓
     Exit Sub
  End If

    strSurname = txtSurname.Text
    Long.TryParse(txtIDno.Text, lngIDno)
    Integer.TryParse(CStr(nupWeight.Value), intWeight✓)
    Decimal.TryParse(CStr(txtHeight.Text), decHeight)

    dblBMI = Math.Round(intWeight / (decHeight ^ 2))
 strReference = strSurname.ToString.Substring(0, 3) &
 lngIDno.ToString.Substring(6)

 Select Case cmbSportingCodes.SelectedIndex
    Case 0
      dblAssessmentBMI = 18.5
    Case 1
      dblAssessmentBMI = 20.5
 End Select✓

 If dblBMI < dblAssessmentBMI Then
    strAssessmentResults = "Not successfull...Better luck next time"
 Else
 strAssessmentResults = "Congratulations...you meet minimum criteria"
 End If

     lblBMI.Text = CStr(dblBMI) ✓
     lblReference.Text = strReference✓
     lblAssessment.Text = strAssessmentResults
 End Sub

 Private Sub btnClear_Click(ByVal sender As…) Handles btnClear.Click

MessageBox.Show("This will clear all fields", "Confirm",
 MessageBoxButtons.OKCancel, MessageBoxIcon.Information) =
 Windows.Forms.DialogResult.OK Then
     txtSurname.Clear()✓
     txtIDno.Clear()
     nupWeight.ResetText()
     txtHeight.Clear()
     cmbSportingCodes.Text = ""
     lblBMI.Text✓ = ""
     lblReference.Text = ""
     lblAssessment.Text = ""
     txtSurname.Focus()
 End If
 End Sub
```

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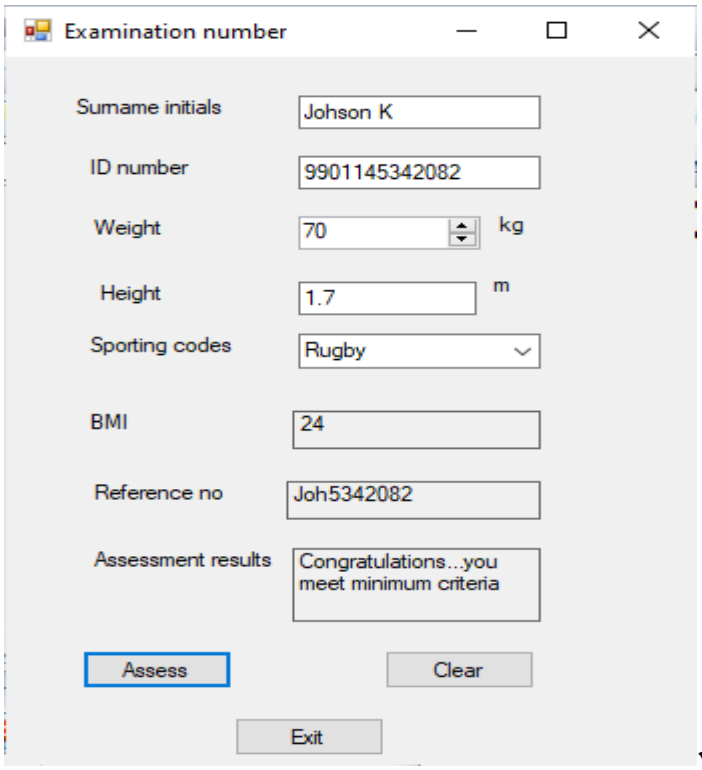
```
Private Sub btnExit_Click(ByVal sender As…) Handles btnExit.Click

If MessageBox.Show("Terminate the program", "Exit",
   MessageBoxButtons.YesNo, MessageBoxIcon.Question) =
   Windows.Forms.DialogResult.Yes Then
     Me.Close()✓
End If                                                          (14)
End Sub✓

End Class
```

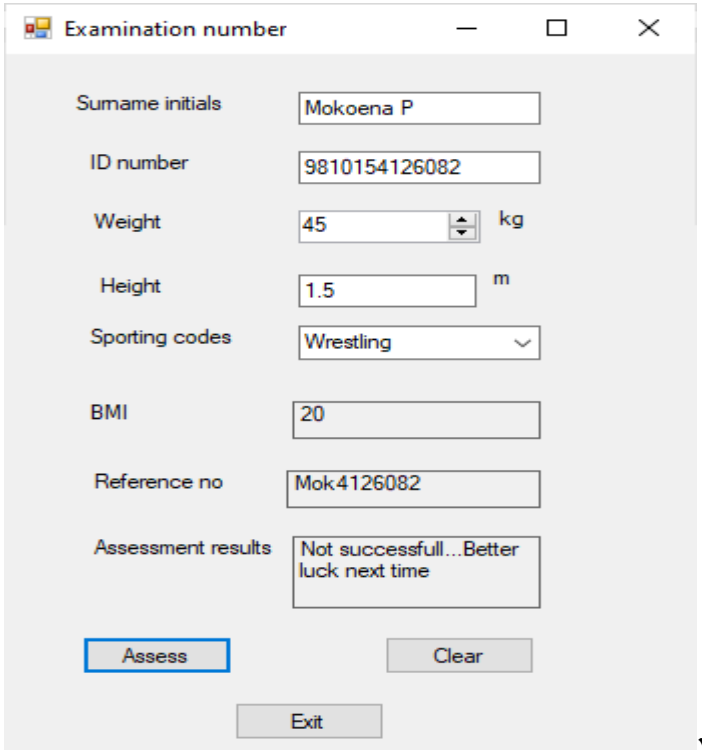
4.3 Print the source code. ✓ (1)

4.4 Form title bar. ✓ (1)

4.5



✓



✓

(2)
[19]

TOTAL: 100

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