Menoufiya University
Faculty of Engineering, Shebin El-Kom
Production Engineering and Mechanical Design Department
Second Semester Examination, 2015-2016


Subject: Computer Application (1)) Code: PRE123 / Year :First Year
Time Allowed : three hours
Total Marks : 60 marks
Date of Exam : 5/6/2016

Solve the following three questions [Note: marks of (Q.1), (Q.2),(Q.3) are " $20,20,20$ " marks respectivel-]
(Q.1): Fill the following ten statements using the ten issues which after these statements:-

1) In Fortran, statement IF (F.............6) $T=4$ Imeans that ( $T$ ) will equal (4) when (F) equals to (6).
2) Statement 1 Dim $N$ As Byte $\mathbb{1}$, can declare in V-Basic, integer variable ( N ) as ( $0,1,2,3,4$,
3) In Fortran, the programmer can use $\$ NE $\$ to check condition which means that " ............".
4) The code in V-Basic which has statement $\ \ldots \ldots . . . . .$.

5) IF (R.GT.K) M....... 5 is simplest form of IF-Statement in V.B. where no need for writing End If.
6) $\mathrm{L}=\left(\mathrm{Ax} * 0.666 /\left(\ldots \ldots . . . . . .{ }^{\wedge} \mathbf{0 . 5}\right)\right)^{\wedge} 0.5$ calculats side length $(\mathrm{L})$ of equilateral hexagon of area (Ax) in V.B.
7) In V.B, function ............ (T1.text) can separate only numeric numbers of contents of TextBox (T1).
8) In V.B, statement $R=9 \wedge 0.6$ : If $R>3$ Then For $J=1$ To 7: $T=J+2$ * T: Next J 基 make $T+9=$
9) In Fortran , code which has statement [..... $20 \quad I=1,15 \|$ must include also statement 20 CONTINUE] .

Choose from these the following words to fill the ten previous statements:

Q.3): Student designed program in (Visualsasic. By activating one of two OptionButtons of names $(0 \& Q)$, user can compute volume of solid cylinder of hight ( 9 cm ) or volume of same cylinder but has hole as cone where tip of cone conside with center of cylinder's base and by selecting diameter ( d 2 ) of cylinder and diameter (d1) of cone using ScrollBars ( $\mathrm{H} \& \mathrm{Z}$ ). a) Draw form of program including details.
b) Code of this program is shown beside this question but it contains some mistakes. Write this code "as it is" in answer paper and draw circles around mistakes, then write corrections of mistakes over mistakes.

```
Dim d2, d1, pi As Single
Incorrect V.B. Code
Private Sub Calc_Click()
\(\mathrm{d} 2=0.1\) * H.Value : \(\mathrm{d} 1=0.1\) * Z.Value : \(\mathrm{pi}=3.14 / 2\)
If \(\mathrm{O} . \mathrm{Val}=\) True Then \(\mathrm{V}=9\) * pi * d 2 ^ 2
If Q.Value.EQ. True Then
\(\mathrm{V}=\) 9 \(^{*} \mathrm{pi}{ }^{*}\left(\mathrm{~d} 2 \wedge 2-(1 / 6)^{*} \mathrm{~d} 1^{\wedge} 2\right)\) : End If
txtV.Text \(=\) V
End Sub
Private Sub H_Click ()
T.Text = 0.1 * H.Value: Z.Min = H.Value : Calc_Click
End Sub
Private Sub Z_Change()
U.Text \(=10\) * Z.Value : Calc-Click
End Sub
```

With our best wishes (Dr/Mohamed Allam


