

**Question B1 - [5 marks]**

COMPUTE\_TOTAL\_PAYROLL

totalPayroll = 0

REPEAT

PRINT "Please type a payroll amount: "

READ payrollAmount

IF payrollAmount != EXIT THEN

ADD payrollAmount TO totalPayroll

ENDIF

UNTIL payrollAmount = EXIT

PRINT "The total payroll is: ", totalPayroll

END

TOTAL [5]

Question B2 - [35 marks]

PROCESS\_TIME\_VALUES

errorMessage = ""

SEPARATOR = '.'

OPEN "TIMES.TXT"

READ timeValue

DOWHILE read was successful

IF length(timeValue) != 8 THEN

errorMessage = "error: invalid time"

ELSE

hh = characters 1 and 2

separator1 = character 3

mm = characters 4 and 5

separator2 = character 6

ss = characters 7 and 8

IF hh is not numeric OR

mm is not numeric OR

ss is not numeric OR

separator1 != SEPARATOR OR

separator2 != SEPARATOR OR

(0 > hh > 23) OR

(0 > mm > 59) OR

(0 > ss > 59)

THEN

errorMessage = "error: invalid time"

ENDIF

ENDIF

IF errorMessage is empty THEN

PRINT timeValue

ELSE

PRINT timeValue, errorMessage

ENDIF

READ timeValue

ENDWHILE

CLOSE "TIMES.TXT"

END

2  
2  
2  
2  
2

3

8

2  
2  
2

2  
2

2

2

2

TOTAL 35