

EASTERN UNIVERSITY, SRÍLANKA DEPARTMENT OF MATHEMATICS

SECOND EXAMINATION IN SCIENCE - 2009/2010 FIRST SEMESTER (June. /July., 2011)

CS152 – PRACTICAL WORK ON INTRODUCTION TO PROGRAM DESIGN AND PROGRAMMING (Proper & Repeat)

Answer all questions.

Time: 2 Hours

Declare a structure for an employer record consisting of the following fields:

emp_name
emp_id
address
sex
basic_Salary
allowance
unit
charge
total Salary

(Note: In this structure, 'unit' denotes the units of electricity consumed by the employee who resides in the quarters and 'charge' denotes the electricity charge)

Write a C++ programme to do the following:

- Read the necessary data (Emp_name, Emp_id, Address, Sex, Basic_Salary, Allowance and unit) from the keyboard for 5 Employees.
- Write a function to calculate and set the **charge** fields of all employees with the following:
 - o If they consumed less than 90 units, then the charge per unit is Rs. 9
 - o If they consumed between 90 and 180 units, then the charge per unit is Rs. 15
 - If they consumed more than 180, then the charge per unit is Rs. 20
 (Charge = unit * charge per unit)

• Write a function to Calculate and set the Total_salary field of all employees with the following formula.

Total_salary=Basic_salary + allowance - charge

- Display all employees emp_name and charge detail.
- Write a function to return the *maximum* of Total_Salary among all five employees
- Write a function to return the *minimum* of Total_Salary among all five employees
- Write a function to return the average of Total_Salary of all five employees
- Print maximum, minimum and average Total_Salary of all five employees.

lote: In this structure, 'unit' denotes the units