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HS/XI/V/CT/Pr/Paper-II/22

2022

COMPUTER PROGRAMMING IN C
COMPUTER TECHNIQUE (Paper – II)
(Vocational Stream)
(Practical Examination)

Full Marks : 100

Time : 4 hours

Answer **ONE** question from each Group

Group – A

1. A file named DATA contains a series of integer numbers. Code a program to read these numbers and then write all 'odd' numbers to a file to be called ODD and all 'even' numbers to a file to be called EVEN.

40

2. Write a program that would sort a list of names in alphabetical order. Illustrate example or sample data to show the output.

40

(2)

Group-B

3. A certain Grade of steel is graded according to the following conditions: 40

- (i) Hardness must be greater than 50
- (ii) Carbon content must be less than 0.7
- (iii) Tensile strength must be greater than 5600.

The Grades is 10 if all the three conditions are met

Grade is 9 if conditions (i) and (ii) are met

Grade is 8 if conditions (ii) and (iii) are met

Grade is 7 if conditions (i) and (iii) are met

Grade is 6 if only one condition is met

Grade is 5 if none of the conditions are met

Write a program, which will require the user to give value of hardness, Carbon content and tensile strength of the steel under consideration and output the grade of the steel.

(3)

4. The minimum criteria for admission to a certain college are as follows: 40

- (a) Marks in Mathematics ≥ 65
- (b) Marks in Physics ≥ 65
- (c) Marks in Chemistry ≥ 50
- (d) Total of all the three subjects ≥ 200

Or

Total in Mathematics and Physics ≥ 150

Write a program to input the name of a candidate of marks obtained in all the three subjects and determine whether he or she is eligible for admission or not.

5. Internal Assessments. 10

6. Viva-Voce. 10
