

MAHARASHTRA STATE BOARD OF VOCATIONAL EDUCATION EXAMINATIONS, MUMBAI

Examination—April, 2016 (Two Year Diploma Courses)

GROUP—ALL GROUPS

[TIME ALLOWED — 3 HOURS]

(MARKS — 30)

ELECTIVE-I

APPLIED MATHEMATICS (PRACTICAL)

Instruction.—Attempt all questions.

- | | Marks |
|--|-------|
| 1. (a) Find the equation of each of the following lines :— | 20 |
| (i) A line parallel to x -axis. | |
| (ii) A line parallel to Y -axis and at a distance of 5 units on the left side of it. | |
| (b) A Function F is defined as following :— | |
| $F(x) = 4x + 5$ for $-4 < x < 0$. | |
| $= 5-x$ for $0 < x < 4$. | |
| (i) Find the value of $f(-1)$, $f(0)$ and $f(5)$. | |
| (ii) Find the values of x for which (i) $f(x) = 3$ (ii) $f(x) = 5$. | |
| 2. Explain in brief :— | 5 |
| Correlation co-efficients. | |
| 3. Oral. | 5 |
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