

MAHARASHTRA STATE BOARD OF VOCATIONAL EDUCATION EXAMINATIONS, MUMBAI

Examination—April, 2016 (Two Year Diploma Courses)

Group—All Group

[TIME ALLOWED — 3 HOURS]

(MARKS — 30)

BUSINESS MATHEMATICES (PRACTICAL)

Instructions.—(1) All questions are compulsory.

(2) Figures to the right indicate full marks.

Marks

1. Attempt any one of the following :—

10

(a) Using log find value of the expression

$$(i) \frac{0.493^2 \times 670.78}{109.28 \times \sqrt{1.807}}$$

$$(ii) \frac{75.56 \times \sqrt{5.34}}{9.45^2 \times 0.4048}$$

(b) The following table gives indices of industrial production and number of registered unemployed person (in lakhs) :—

Indes of production (x)	100	102	104	107	105	112	103	99
No of unemployed (y)	15	12	13	11	12	12	19	26

Draw the regression line graph of y on x.

2. Attempt any one of the following :—

10

(a) Given the following life table which relates to parrots at age-x, complete the life table of parrots :—

X	0	1	2	3	4	5
lx	1000	940	780	590	25	0

(b) Using log table find value of the expression.—

$$(i) \frac{0.537^3 \times 167.78}{\sqrt{11.87}}$$

$$(ii) \frac{\sqrt{515.34}}{23.45^2 \times 0.0828}$$

3. Using any spreadsheet application prepare stastical table to calculate mean, median and standard deviation of data.

5

Height (in cm)	145-150	150-155	155-160	160-165	165-170	170-175	175-180	180-185
No. of persons	4	6	25	57	64	30	8	6

4. Oral.

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