

Dhaka, Dinajpur, Sylhet and Jashore Boards-2018

Higher Mathematics 2nd Paper (Creative) Subject Code :

2	6	6
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Time — 2 hours 35 minutes

Full marks — 50

*[N.B. The figures in the right margin indicate full marks.
Answer five questions taking at least two from each group.]*

Group A – Algebra and Trigonometry

1. ► Scenario-1 : $f(x) = 3x + 1$.

Scenario-2 : $|z - 5| = 3$

- a. What do you mean by $\mathbb{R}$ and $\mathbb{C}$? What is the relation between them? 2
- b. Show that the solution set of $2|f(x-2)| \leq 1$ on the real line. 4
- c. What does the locus of scenario-2 represent geometrically if $z = x + iy$? Sketch it. 4

2. ★ The price of each kg of food F_1 and F_2 and the amount of vitamin C and D in them are as follows :

Types of food	Vitamin C	Vitamin D	The cost per killo
F_1	6	2	3
F_2	3	5	5

- a. Write two advantages of Linear Programming. 2
- b. Daily requirements of C and D are minimum 60 units and 50 units respectively. Formulate a linear program to fulfil the daily requirement of vitamins at minimum cost. 4
- c. Solve the linear programming problem obtained in question no 2(b) graphically to find daily minimum cost. 4

3. ★ Scenario-1 : $\frac{1}{x} + \frac{1}{p-x} = \frac{1}{q}$ 20

Scenario-2 : $\left(2x^3 - \frac{1}{x}\right)$

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